ADVANCED SATELLITE RESEARCH PROJECT:

SCAR Research Database

1.0 INTRODUCTION/METHODOLOGY

1.1 Contents

This literature search and review was prepared under NASA contract. The purpose of this process was to locate and analyze the most recent literature that was relevant to the contract research. This was done by cross-relating books, articles, monographs and journals that relate to the following topics:

Experimental Systems:

Advanced Communications Technology Satellite (ACTS)

ISDN and Advanced Communication Techniques:

- ISDN and Satellites
- Integrated System Digital Network (ISDN) Standards
- · Broadband ISDN
- Frame relay and switching
- Computer networks and Satellites
- · Satellite Orbits and Technology
- Satellite Orbits
- Satellite Transmission Quality
- Networks
- Network Configuration

1.2 Search Methodology

(NACA-CP-135086) ADVANCED SATELLIFE N91-26182 KF5(AGUR PROJECT: SCAR RESEARCH LATABASE.
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The literature search was carried out by two methods. A computer search of technical databases was performed on a series of key words (and combinations of key words) and resulted in 1777 titles. These titles were examined and 288 relevant articles were chosen. Full citations and abstracts were obtained for these articles. The databases examined include:

- NTIS (Corp. 1990 NTIS)
- Aerospace (Corp. AIAA 1990)
- Inspec 2 (Corp. IEE 1990)
- Compendex Plus (Corp. Engineering Info Inc. 1990)
- Computer Database (Corp. Information Access Company 1990)
- ABI/Inform (Corp. UMI/Data Courier 1990)
- Supertech (Corp. R.R. Bowker Company 1990)

The second part of the search was a manual examination of a selection of journal and books. The journals examined include:

- Via Satellite
- Telecommunications Magazine
- Satellite Communication
- International Journal of Satellite Communication and Broadcast
- Network World
- Telephony
- Teleconnect
- Data Communication
- IEEE Documents
- CCITT Recommendations

Other articles and theses were obtained from the Center for Space and Geosciences Policy (University of Colorado at Boulder), the Interdisciplinary Telecommunications Program (University of Colorado at Boulder), The Institute for Telecommunications Science (ITS) and the National Institute for Standards and Technology (NTIA).

1.3 Description and User's Guide to the Advanced Satellite Research Project: SCAR Research Database

1.3.1 Content of the Database

The database contains the following information about each article from the literature search:

- Article title
- Author(s)
- Source (Journal, Thesis, Conference, etc.)
- Volume and Number
- · Publication date
- Key words relating to the article content
- If the article or abstract is on file
- Index number of the article at the Interdisciplinary Telecommunications Program (ITP) at the University of Colorado at Boulder

1.3.2 Uses of the Database

The intended use of the database is to allow users to quickly extract bibliographic citations for articles dealing with a specific topic. In order to do this, the user follows the menu selections to select articles by key word. Once the key words have been chosen, the printer should be readied and then the citations will be printed by following the menu. The citations will be printed out in groups by key word.

The information found on each article will be printed out, including an index number for each article or abstract. This index number corresponds to physical article in a filing cabinet at the CU ITP library. These numbers have been chosen arbitrarily and have been assigned to articles as grouped by key word.

1.3.3 Limitations of the Database

The database is a very basic electronic file created through the above described literature search process. Bibliographical references are simply organized by key word in an effort to provide reasonable functionality at minimal cost.

More specifically, due to budgetary constraints, the references will not be sorted alphabetically or by author, source, title or date. There is no citation filtering, so articles may be printed multiple times in a multiple key word search if they fall into more than one key word category.

Additional sort features may be added at some future time but have not been included in this initial database file.

2.0 SCAR LITERATURE SEARCH ANALYSIS

2.1 The Advanced Communications Technology Satellite (ACTS)

ACTS is an experimental, rather than operational communications satellite featuring a number of advanced capabilities. These capabilities include:

- on-board processing
- dynamic bandwidth, power, and time slot allocation
- Ka Band frequency with 2.5 GHz of useable bandwidth
- hopping spot beams
- steerable antenna

Although ACTS itself is meant for experimental purposes, the advanced technologies involved show promise for future development and use in commercial communications satellites.

A majority of the ACTS literature is composed of technical descriptions of the satellite and its capabilities. There is limited literature on the implications of the satellite's capabilities or the nature of the communications experiments that will be performed with ACTS.

2.2 The Integrated System Digital Network (ISDN) and Satellites

2.2.1 Availability of information on satellites and ISDN

There doesn't appear to be a large body of articles on the subject of ISDN and satellites. From the results of our research one might estimate that articles on ISDN and terrestrial

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communications are twenty times more numerous than ISDN and satellites. We also found more literature concerning policy than technical issues.

2.2.2 Compatibility Issues of ISDN with Satellites

Satellites are under current "I" series provisions are compatible with ISDN and will provide an important transmission link in a future worldwide ISDN network, as they already do in present international networks. The current joint CCIR/CCITT Committee on establishing full compatibility between satellite and ISDN is the most important part of the exercise at this time but these activities have not yet been reported in the literature.

2.2.3 ISDN Standards Issues for Satellites

There is perhaps twenty times more literature concerning ISDN as a fiber-based terrestrial transport standard than as a satellite standard. In order to assure that satellites are included in a future world wide network, transmission delay tolerances need to continue being oriented to the least common denominator, ie: the satellite transmission path of approximately 250 ms. The current 400ms recommendation of the CCITT (G.114) appears likely to stand for the present time (see Sec. 2.2.2 above).

2.2.4 The Place of Satellites in the Future Worldwide ISDN Network

Satellites are very strong in broadcast services and are considered to remain as the dominant video broadcast transmission medium for some time to come. A worldwide HDTV network and standard may prove unworkable without a satellite compatible BISDN standard. Satellites already play an important role in international network redundancy and can continue to provide such services within a global ISDN network. The role of satellites in backing up terrestrial networks is strongly represented in the literature we found. ISDN satellite services may remain the only cost effective means of connecting remote areas into the network.

2.2.5 Forces Working Against Satellite Compatible ISDN

Terrestrial networks often require more expensive equipment, more investment from the network user and therefore are frequently the focus of manufacturers' development thrusts.

Satellites allow relatively inexpensive bypass of the terrestrial networks and as such represent a

threat to the profits of certain manufacturers and service providers; eg: fiber & switch manufacturing, public network and carrier services and in the U.S. Regional Bell Operating Companies (RBOCs).

2.3 Summary of SCAR Literature Search for topic of ISDN Standards:

2.3.1 Availability of Information on ISDN Standards

The complete and most recent CCITT recommendations are available in the University of Colorado Engineering library, and at Contel/GTE. Complete past and present recommendations are available at the NIST and ITS libraries at the Department of Commerce in Boulder. There is a small body of literature in journals analyzing the implications and developments concerning ISDN standards, but the official CCITT recommendations are the definitive source for this information.

2.3.2 The Importance of ISDN Standards

There is an industry-wide consensus that ISDN will not work unless world-wide standards are set immediately. The differences between the Synchronous Optical Network standard (SONET) in the United States and the Digital Synchronous Hierarchy (DSH) standard in Europe illustrate that full cooperation hasn't been achieved yet. The point of an ISDN is to encourage and facilitate integration which is impossible without a comprehensive body of agreed upon standards. The literature increasingly reflects a viewpoint that ISDN is too small a bandwidth and too slow a throughput to meet 21st century needs and that BISDN standards versus private networks using FDDI is the key element of discussing standards issues.

2.4 Summary of SCAR Literature Search for topic of BISDN:

2.4.1 Availability of information on BISDN

There are a number of articles available covering BISDN. Although there is a small percent of popularly oriented literature in the journals, they are generally confined to the journals specializing in current industry news. As would be expected, the most detailed technical articles were found in IEEE journals and colloquia or conference documentation.

2,4,2 Promise of BISDN

BISDN will is intended to be a worldwide standard for high capacity information exchange. The increasing use of video and graphics transmission and on-line interactive services are cited in some journals as providing the market pull needed to develop this technology. HDTV is seen as an important developing technology which will enhance the drive toward BISDN. Other developing technologies which will accompany BISDN are Asynchronous Transfer Mode (ATM) and fast packet switching.

2,4,3 Migration from ISDN to BISDN

As noted in 2.3.2, ISDN has an industry-wide reputation as being too little too late. The transmission speeds of ISDN are no longer competitive with other installed systems for data links such as Local Area Network (LAN) based FDDI. The services available via ISDN, especially at Basic Rate Interface (BRI; 144 Kilobits/sec) does not provide enough incentive to sell customers on the cost of this service.

BISDN, with SONET level speeds of 155.5 Megabit/sec and 622 Megabit/sec does suggest that ISDN could lead to a useful broadband service in the longer term. The BISDN channels are compatible with ISDN channels and will offer much greater bandwidth and flexibility to users. Services such as bandwidth on demand, videoconferencing and simultaneous voice and data will be supported.

2.4.4 Caveats about BISDN

Manufacturers are becoming impatient with the slow rate of standards making and are already producing non-standard ISDN-like services. If this trend continues with BISDN, the whole point of BISDN may also be lost.

2.5 Frame Relay and Switching

2.5.1 The Technical Concept Behind Frame Relay.

Frame relay eliminates intermediate node processing for error correction and flow control which speeds up network throughput and efficiency. The inherently lower BER of fiber makes it possible to do these functions only at the network 'edges' without loss of transmission quality. A reduction in overhead results from fast packet switching. All of these aspects, however, tend to

create problems with satellite transmission delay. There is unfortunately virtually no literature addressing the problems of satellite compatibility with frame relay.

2.5.2 The Difference Between Frame Relay and Cell Relay.

Frame relay systems enclose variable-sized user packets (called frames) that add addressing and verification information. Frame length varies greatly in length up to a design limit. In cell relay incoming data is uniformly divided into fixed cell-sized increments. Cells may be full, empty, or partially filled.

2.5.3 Synchronous Versus Asynchronous Transfer Modes.

Time division multiplexing requires end to end synchronization for correct decoding and time slot allocation. Framing bits are used to identify the start and end of frames and bandwidth is allocated whether or not there is information to transmit. Asynchronous Transfer Mode (ATM) recognizes the usually bursty nature of traffic and constructs a packet of information with headers indicating routing and other network services. ATM is synchronous at the bit level within packets/cells but asynchronous at the channel level. No bandwidth is allocated in an ATM trunk to an idle channel, so that more channels are handled with the same trunk bandwidth. Again ATM creates problems for satellite transmission, because of delay, and this is little addressed in the literature.

2.5.4. Implementation of Fast Packet Switching Technology

Frame relay services have been implemented on a connection-oriented basis only while cell relay has also been specified for connectionless services. The shorter processing delays of fast packet switching makes it acceptable for voice transmission unlike traditional packet switching which is suited only for data. The combination of voice and data into one network takes advantage of the economy of network consolidation. Error correction techniques for satellite transmission is affected by fast packet switching technology.

2.5.5. Different Options Available in Switching Design

Among the many design factors and tradeoffs involved in fast packet switching are packet length and variability; priority classes and congestion management; error control; switch size;

standards; and, network management. These are all sensitive to satellite transmission characteristics.

2.5.6 International Standards Versus Proprietary Protocols

CCITT Study Group XVIII, which deals with ISDN issues, has recommended fixed length packets (cells) with five (5) byte headers and 48 byte 'payloads', and a header error control field of one of the five (5) header bytes. Many corporate networks use the proprietary protocols of a particular vendor which limits or complicates interconnectivity.

2.6 Computer Networks and Satellites:

2.6.1 The First Generation of Very Small Aperture Terminals (VSATs)

The key to computer networks using satellite connections are VSAT operations and on-board processing to allow MESH configuration networks. There have been three distinct stages of VSAT evolution. The first generation of receive-only terminals introduced around 1980 was concurrent with the higher powered C band satellites. They used spread spectrum modulation techniques, known as Code Division Multiple Access (CDMA) and refined contention access schemes and provided low-speed (less than 9.6 kbps) data services.

2.6.2 The Second Generation of Very Small Aperture Terminals

The second generation in 1983-1984 introduced the first two-way, interactive, and primarily low-speed systems at C and Ku bands. Data communications applications and network management techniques began to evolve. These networks are typically characterized as hardware defined multi-port, multi-protocol, multi-application systems. These typically use bi-Phase Shift Key (BPSK) operations rather than CDMA.

2.6.3 The Third Generation of Very Small Aperture Terminals

The third and current generation appeared in 1987 with the following key characteristics: switched networks, based on standardized architectures such as X.25; multi-port/multi-protocol systems; better bandwidth management which allows improved satellite access and increased capacity; compatibility with hybrid network configurations; a high degree of software definition; and, the beginning of application transparency.

2,6.4 Multiple Access Techniques for VSAT Networks

The efficiency of the access method used depends on the nature of the traffic being handled. The most flexible method is time division multiple access (TDMA). Each VSAT accesses the hub during its assigned time slot. More advanced sub-access methods are also used. Random Aloha is a pure contention method with the least timing demands and expense and is suited for very low traffic. Slotted Aloha has predefined time slot boundaries for VSAT access which reduces collisions by half and thus doubles traffic throughput. Reservation access is suited for long or widely varying message lengths or traffic rates providing demand-assigned capacity as needed on a priority basis. Dedicated stream access may be used for a steady flow of data or voice traffic or applications where response times justify less efficient capacity use. Adaptive techniques may be used to respond to changing traffic patterns: using slotted Aloha then going to reservation/stream access under heavy traffic.

2.6.5 The Plethora of VSAT Applications

These include two-way and NxN multi-switched video/audioconferencing; centrally hub-controlled data communication networks; mesh connectivity for direct access eliminating hubs; low burst rate TDMA with DS-1 formatted T1 carrier user interface; direct ISDN access to areas without basic telephone service; and, support of the HDLC protocol to exchange data with appropriate error and flow control.

2.6.6 VSATs, Data Networks and ACTS

The ability of ACTS to easily carry out on-board processing greatly enhances the ability to erect cost effective N X N or MESH networks. The literature little addresses this issue, however, ACTS tests should emphasize this new capability.

2.7 Satelite Orbits

2.7.1 Types of Orbits

There are three basic types of orbits used for satellite communications: low, medium, and geosynchronous earth orbit. Each of these orbits may have one or more of the following

characteristics: polar, inclined, or equatorial; circular or elliptical; and, geostationary, geosynchronous, or sun-synchronous.

2.7.2 Highly Inclined, Elliptical and Semi-synchronous (12-hour period) Orbits

These orbits such as the highly elliptical orbit of the Molniya satellite, are useful for coverage of latitudes exceeding +/- 75 degrees providing good visibility at high elevation angles for mobile satellite services. As the orbital period is increased, the apogee distance is also increased together with propagation delay and path attenuation. A variation on this concept is the "Loopus Orbit." In the apogee region of the HEO or Loopus Obit, the satellite appears almost stationary for a substantial duration of its orbit. Nevertheless, the orbit requires considerable tracking capability.

2.7.3 Apogee at Constant time-of-day Equatorial (ACE) Orbit

This new type of orbit has been proposed recently by LORAL (Ford Aerospace)/NASA-Lewis Research Center avoiding the need for a coveted slot in the geostationary arc and which is capable of providing worldwide coverage at peak traffic periods with a single satellite. If the plane of the orbit lies in the plane of the earth's equator and the perigee and apogee are set so that the apsidal line rotates within the equatorial plane at 360 degrees per year, the orbit becomes sun synchronous. If the orbital period is sub-synchronous (i.e. a simple fraction of a day) the satellite reaches apogee at the same time every day. The optimum ACE orbit of 4.8 hours provides coverage every 72 degrees longitude for up to three hours at the same time of day. Free space loss is 7 Db lower and delay is less than half that of a geostationary orbit.

2.7.4 Inclined Orbit Operation in Geosynchronous Orbit

Comsat Labs have recently patented a modification of the geostationary orbit: the inclined orbit maneuver. This technique is used to extend the useful life of an aging satellite by halting its North-South station keeping and allowing it to decay slowly into an inclined orbit at a rate of about 0.85 degrees per year. Reverse inclination also may be applied at launch to double this effect. More fuel is used for North-South than is used for East-West station keeping and one month's supply of fuel for North-South station keeping is nearly equivalent to an additional year

of useful life for East-West station keeping. Inclined orbits require Az-El tracking because the satellite traces a figure-of-eight movement in the sky as seen by the earth observer.

2.7.5 Low Orbit Satellites with Inter-Satellite Links

The use of low circular orbit constellations has been studied for nearly thirty years as an alternate method of providing worldwide coverage compared to geostationary satellites which are not visible at the poles. Motorola recently proposed a 77-spacecraft constellation, using eleven satellites in seven polar orbits, at an altitude of 400-500 nautical miles, for a geographically independent global digital cellular communications network. The system would use L-band links to subscriber units, and Ka band satellite-to-gateway links and intersatellite cross-links with onboard processing. Very high levels of frequency reuse, up to 37 times, can be achieved by these satellites.

2.7.6 New Concepts in Satellite Positioning

The demands of 21st Century satellite operations are driven toward combining wideband, wide geographic coverage, high quality and N dimensional networks with near-zero second delay. The Motorola Iridium project may show new opportunity in all respects. Other concepts such as use of ground generated power to "fly" a satellite at 500 miles altitude, building upon the Canadian SHARP project is another new concept. The sparse literature available on such advanced concepts will be augmented over time.

2.8 Satelite Transmission Quality

Several types of signal impairments may affect satellite transmission quality. These may be caused by technical design limitations, atmospheric propagation effects, acts of nature, operational problems, satellite problems, earth station or feeder link difficulties among others. There are a variety of techniques that can be used to control, avoid, or minimize such impairments. There is a rich literature in this area and selections have been chosen as carefully as possible.

2.8.1 Technical Design Limitations

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Design limitations can include cross-polarization interference in frequency reuse systems; co-channel interference due to over-deviation in FDM/FM systems; sidelobe radiation from parabolic antennas; associated or non-associated spurious emissions including swept radar; adjacent satellite interference; terrestrial microwave interference; and, digital intersymbol interference.

2.8.2 Propagation Impairments

These can include: atmospheric absorption; atmospheric rain attenuation; atmospheric and ionospheric scintillation; tropospheric multipath fading; land and sea multi-path fading; Faraday rotation; rain and ice depolarization; and, Doppler frequency shift and ranging.

2.8.3 Uncontrollable Acts of Nature

These include: sun-spot activity which occurs in eleven year cycles; sun transit outage when the satellite is between the sun and the earth; biannual eclipses at the equinoxes when the earth is between the sun and the satellite; severe Ku and Ka band weather degradation at low elevation angles due to the increased antenna noise temperature caused by heavy rainfall.

2.8.4 Operational Problems and Human Errors

Operational problems of all types may contribute to transmission impairments. These include: inadvertent channel carrier emissions (usually blocked off-hook) especially in SCPC systems; unauthorized carriers in FDMA systems; uplink polarization errors; antenna pointing inaccuracies; and, inadequate updata, repair or maintenance of earth station equipment.

2.8.5 Satellite Related Malfunctions

These may include: frequency and power variations in beacon signals which cause tracking problems; inadequate isolation of spatial beams and opposite polarizations; footprint contour uncertainty due to spacecraft instability; variations in transponder gain, sensitivity and output power; solar/DC power bus load variations; inoperative matrix switching for beam to receivers and TWTAs/SSPAs; and, catastrophic satellite failures which may require point-over restoration to in-orbit spare capacity if available.

2.8.6 The Use of ISDN on Satellites

This presents a unique challenge to meet media transparent specifications. Terrestrial based radio and line systems usually have shorter transmission delays and can also have less performance with regard to bit error rates, especially fiber optic systems. Non-synchronous satellites, especially Highly Elliptical Orbit Satellites, used for mobile applications, present the added challenge of Doppler frequency shift compensation. In the future, both inclined orbit and geosynchronous orbit satellites may require increased use of storage and of buffers in digital systems such as TDMA/SSTDMA and IDR/IBS to compensate for time differences due to range variations as other synchronization and BER problems.

2.9 Network Configuration

This is a rich area where seventy-four articles were selected to achieve reasonable balance and comprehensiveness. In fact, several hundred articles might have been selected because of the great number of contributions that have been made in the last five years in this area. This is both because it is such an important area, and even more so because there are at least a dozen sub-elements of this overall topic. Specific areas covered include:

(a) Hybrid or Integrated Space/Terrestrial Networks:

This is a key area frequently addressed in the literature with some eight articles specifically addressing this topic and many others touching upon it. Since ACTS hybrid space/terrestrial tests and demonstrations are intended, this should be of particular value.

(b) Satellites vs. Fiber Optics:

The relative merits and performance of satellites and fiber optics in different applications and network configurations is also addressed in several articles, but without definitive conclusions.

(c) Network Architectures and Route Optimization:

This is among the most carefully and precisely addressed topics with many articles providing precise analysis and recommended design or software concepts.

(d) Survivability and Reliability:

The issues of survivability, system availability and reliability is closely tied to network configuration and the characteristics of the traffic being carried through the network (e.g. burstiness, flow control, etc.). A number of good articles on these topics are included in the bibliography.

(e) Defense and Tactical Communications:

The issue of special defense and tactical communications are closely related to survivability and reliability and terrestrial vs. radio and satellite communications. Several key articles on this topic have been included.

(f) Network Management and Network Reconfiguration:

Key elements of network management and network configuration are addressed.

These are largely software rather than hardware dependent.

(g) Technology and Future Satellite Network Configurations:

This is the area where the largest number of articles have been selected, because of their great relevance to the SCAR project and ACTS. The great bulk of articles address on-board switching, on-board processing and even CCIS/No.7 signalling issues.

(h) Network Configuration and Services:

A number of services and their relationship to network configuration is discussed.

The implications for video services, ISDN, mobile satellite services, telephone, data and multi-media services are addressed in the various selected articles.

(i) Network Configuration and VSATs:

The implications of conventional vs. VSAT earth stations and star vs. MESH networks are among the key elements addressed in terms of satellite ground equipment.

(j) Specific Network Architecture and Operations:

The operation of specific networks such as BITNET and INTELNET are addressed in several articles indicating their operational approach and network strengths and weaknesses.

(k) National or Regional Networks:

A number of articles present in some detail national or regional systems. Selected articles cover Australia, Germany (Kopernicus), Europe, Japan and the U.S.

(i) Economic and Financial Evaluation of Network Configuration:

Although there are a limited number of good articles that address the economic or financial aspects of network configuration, there are still some valuable articles that address hybrid networks, satellite vs. fiber optic considerations, etc. These are included in the bibliography where identified, but far more work is needed in this area.

3.0 CONCLUSIONS

The Advanced Satellite Research Project; SCAR Research Database is seen as a resource that should grow and become more useful over time. New entries can be made and new and more sophisticated methods to access the database can be designed. As new areas of inquiry emerge, new fields can be added to the database as desired. The idea is make the database extremely portable so that it can be quickly installed as a d-BASE system on virtually any computer desired. The ITP at the CU/Boulder will undertake to update and expand the system as needed. Any inquiries regarding the database should be directed to:

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Director, Interdisciplinary Telecommunications Program
Campus Box 530
Engineering Center OT 2-41
University of Colorado
Boulder, CO 80309-0530
(303) 492-4769

SCAR Technical Literature Data Base

Compiled and Produced

by the

University of Colorado
Interdisciplinary Telecommunications
Program

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SCAR Data Base Handbook

The SCAR Technical Literature Data Base is intended to be straightforward and easy to operate. There should be a 3.5" disk included with this documentation which contains the following files:

The above files must remain in the same directory together for the program to function. The SCAR.DBF file may be used with other dBASE III Plus programs to manipulate the data in different ways.

The SOURCE program is a very simple menu-driven program designed to create ASCII files of the article sources. The files can then be loaded into any text editor, word processor or desktop publisher to organize and print it.

In this documentation are all the listings in the data base grouped by keyword. Each of the groups is listed alphabetically by author. Note that articles may be listed in several keyword areas if the subject matter falls into the different categories.

Loading the program to a hard disk

The program will run faster if it is installed on a hard disk, and there should be no concern about disk space there either. To copy the files to the hard disk, put the disk in the **B**: drive and type the following commands:

C: CD\ MD SCAR CD\SCAR COPY B:*.*

Now all the files on the floppy disk should be on the hard disk. Whether a hard disk is being used or not, the following instructions will apply to using the program.

How to operate the program:

Move to the directory containing the SOURCE.EXE program and type SOURCE. The entry screen for the program should display on the screen. From here one may either Print the sources or Quit the program. Type a **P** or a **Q** for the option desired.

If the Print option is selected the next screen will display the print options screen. All eleven categories for the articles are shown with a corresponding number next to them. In order to print a group of sources, enter the number which corresponds to that category. For example, enter 06 to print all the articles which are in the ACTS keyword category. Both numbers must be entered for the selection to be accepted.

Next an ASCII file will be created which contains all the sources. If it is desired, the file may be viewed on the screen. This is the same as using the TYPE MS-DOS command on any text file at the DOS prompt. To pause the display as the entries go by, press the CTRL-S key combination and any other key to resume the scrolling display.

In order to save the file, enter a Y when prompted. After this screen, the cycle starts over again from the beginning.

Note: Once the program has been run, there will be a SCRAP.TXT file created in the current directory. This will be a duplicate of the last keyword group which was selected for printing. It may be deleted with no harm to the system or program.

The rest of this documentation is a listing of the categories in the data base. Each of these groups can be recreated from the program as an ASCII file and then incorporated into any document or report.

Description of the data

The Title, Author, Source, Vol. and No. data entries are self explanatory.

The Date refers to the date of publication. In some cases the date on our resource was only precise to the year or month. In these cases the date was entered as the 1st of the month or year. (it is a requirement of the dBASE program for the date field format that the entire field be filled)

The Index# entry on each source listing corresponds to the place that article is stored in the ITP file cabinet. Researchers may contact the ITP and request files by this number.

Limitations of the program

This program was intended to be a "quick and dirty" data base program which will provide access to the sources contained in the data base. Ideally this program will help researchers find articles of interest and make locating them easier.

The data in the .DBF file may be used in other ways too, but the added time and cost of developing a more sophisticated program was not possible at this time. If further development is desired at some future date, the users may contact the ITP at their convenience.

ISDN and Satellites

Title: IEEE COLLOQUIUM ON THE ROLE OF SATELLITES IN TOMORROWS FIBER-

OPTIC WORLD

Author:

Source: IEEE CONFERENCE MAY 88

Date: 01/01/88 Vol.: No.: Index#: 00049-00

Title: THE INTEGRATED SERVICES DIGITAL NETWORK AND THE FIXED

SATELLITE SERVICE

Author:

Source: TELECOMMUNICATION JOURNAL Date: 12/01/87 Vol.: 54 No.: 12 Index#: 00050-00

Title: SATELLITE BASED ISDN AND THE CRITCAL STANDARDS ISSUES

Author: Source:

Date: / / Vol.: No.: Index#: 00051-00

Title: ISDN NOW/PROCEEDINGS

Author:

Source: ISDN NOW CONFERENCE

Date: / / Vol.: No.: Index#: 00053-00

Title: THE EIGHTH NORTH AMERICAN ISDN USERS FORUM

Author: Source:

Date: 05/04/90 Vol.: 8 No.: Index#: 00054-00

Title: NORTH AMERICAN ISDN USERS FORUM/WORKING AGREEMENTS FOR

ISDN

Author:

Source: PROCEEDINGS OF THE NIU-FORUM Date: 06/11/90 Vol.: 1 No.: Index#: 00055-00

Title: SATELLITE NETWORKS IN THE ISDN ERA

Author: AMADESI, P. ET.AL.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS

Date: 10/01/86 Vol.: 4 No.: Index#: 00001-00

Title: NASA AND THE CHALLENGE OF ISDN

Author: BEYERLY, R. ET.AL.

Source: REPORT NO. NAS 1.26:182749; NASA-CR-182749

Date: 05/25/88 Vol.: No.: Index#: 00002-00

Title: ISDN: CURRENT DEVELOPMENTS

Author: BODIN, P. ET.AL.

Source: DOCUMENT SUPPLY SERVICE OF ATT LIBRARY NETWORK

Date: 01/01/89 Vol.: No.: Index#: 00002-20

Title: THE CONTROVERSIES SURROUNDING ISDN

Author: BOLGER, THOMAS E.

Source:

Date: / / Vol.: No.: Index#: 00104-10

Title: IMPLEMENTATION OF ISDN SERVICES ON DIGITAL CELLULAR SERVICES

Author: BRUNSGAARD, NIELS O.

Source: THESIS (MS) ITP-UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/88 Vol.: No.: Index#: 00003-00

Title: CLOSE UP: ISDN IN THE USA

Author: BUSHAUS, DAWN

Source: COMMUNICATIONS WEEK

Date: 05/28/90 Vol.: No.: Index#: 00104-20

Title: NASA AND THE CHALLENGE OF ISDN; THE ROLE OF SATELLITES IN AN

ISDN WORLD

Author: BYERLY, R.; BARNES, F.; CODDING, G.; HOFGARD, J.

Source: CENTER FOR SPACE AND GEOSCIENCES POLICY - CU/BOULDER

Date: 05/25/88 Vol.: No.: Index#: 00052-00

Title: PROPOSED SYSTEMS CONFIGURATIONS FOR A SATELLITE BASED ISDN

Author: CAPECE, M. ET.AL.

Source: INTERNATIONAL CONFERENCE ON SATELLITE SYSTEMS FOR MOBILE

COMMUNICATIONS AND NAVIGATION

Date: 01/01/88 Vol.: No.: Index#: 00004-00

Title: SCENARIOS OF INTEGRATION OF SATELLITE SYSTEMS IN THE ISDN

Author: CASAS, J. M.

Source: IEEE COLLOQUIUM ON THE ROLE OF SATELLITES IN TOMORROW'S

FIBER-OPTIC WORLD MAY 88

Date: 01/01/88 Vol.: No.: Index#: 00006-00

Title: THE ROLE OF SATELLITES IN THE ISDN ERA

Author: CASAS, J. M. ET.AL.

Source: INTERNATIONAL CONFERENCE OF NETWORKING TECHNOLOGY AND

ARCHITECTURE JUNE 89

Date: 01/01/89 Vol.: No.: Index#:

Title: NETWORK ARCHITECTURES FOR SATELLITE ISDN

Author: CHITRE D. M. ET.AL.

Source: AIAA INTERNATIONAL COMMUNICATIONS SATELLITE SYSTEMS

CONFERENCE MARCH 1990

Date: 01/01/90 Vol.: No.: Index#: 00813-00

Title: ISDN AND SATELLITE COMMUNICATIONS

Author: CHITRE, D. M.

Source: COMSAT LABS, CONFERENCE SLIDES Date: 01/01/90 Vol.: No.: Index#: 00007-00

Title: ISDN PROTOCOLS AND SATELLITES

Author: CHITRE, D. M. ET.AL.

Source: ICC 86 CONFERENCE JUNE 86

Date: 01/01/86 Vol.: No.: Index#: 00008-00

Title: EUROPEAN COMMUNICATIONS SATELLITE: INTEGRATION IN THE

EUROPEAN NETWORK AND INTERFACING WITH THE ITALIAN PUBLIC

TELEPHONE NETWORK

Author: DE ROSA, D. ET.AL.

Source: NOTE RECENSIONI E NOTIZIE

Date: 01/01/88 Vol.: 37 No.: 1-2 Index#: 00815-00

Title: THE ROLE OF A DOMESTIC SS-TDMA SATELLITE SYSTEM IN THE NETWORK

EVOLUTION STRATEGY TOWARDS THE ISDN

Author: DEPADOVA, S.

Source: GLOBECOM 85 CONFERENCE

Date: 12/01/85 Vol.: No.: Index#: 00009-00

Title: ISDN SYMPOSIA: A HISTORICAL OVERVIEW

Author: DEWITT, RUSSELL G.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00108-00

Title: THE INTELSAT SYSTEM IN THE ISDN ERA

Author: DICKS, J. L. ET.AL.

Source: IEEE COLLOQUIUM MAY 89

Date: 01/01/89 Vol.: No.: Index#: 00010-00

Title: DOCUMENT DELIVERY VIA/ISDN OR SATELLITE NETWORKS

Author: DUNNING, ANTHONY J. Source: AGARD CONFERENCE

Date: 03/01/90 Vol.: No.: Index#: 00011-00

Title: COMBINING SATELLITE AND FIBEROPTIC TECHNOLOGIES IMPROVES

INTERNATIONAL SERVICES AND COSTS

Author: EDWARDS, M.

Source: COMMUNICATIONS NEWS

Date: 06/01/87 Vol.: 24 No.: 6 Index#: 00012-00

Title: FIBER OPTICS AND SATELLITES IN THE INTEGRATED SERVCIES DIGITAL

NETWORK

Author: FERRIS, PAUL E.

Source: THESIS (MS) ITP UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/88 Vol.: No.: Index#: 00013-00

Title: BUSINESS COMMUNICATIONS AND THE ISDN

Author: FOUQUES, M. ET.AL.

Source: DOCUMENT SUPPLY SERVICE OF ATT LIBRARY NETWORK

Date: / / Vol.: No.: Index#: 00013-50

Title: CONSIDERATIONS ON SIGNALLING FOR AN OBP SATELLITE SYSTEM

OFFERING ISDN SERVICES Author: FOURNON, F. M. ET.AL.

Source: IEEE COLLOQUIUM ON SATELLITES AND ISDN MAY 89

Date: 01/01/89 Vol.: No.: Index#: 00014-00

Title: WHITE PAPER TO MANAGEMENT: ISDN TAKES SHAPE

Author: GANTZ, JOHN

Source: NETWORK MANGEMENT

Date: 01/01/89 Vol.: 7 No.: 1 Index#: 00117-25

Title: SATELLITE-BASED ISDN

Author: GODWIN, J. P.

Source: ISDN 87 CONFERENCE-BROADBAND NETWORKS FOR THE FUTURE JUNE

87

Date: 01/01/87 Vol.: No.: Index#: 00015-00

Title: USAT TECHNOLOGY FOR TODAY AND FOR THE FUTURE PART 7

Author: GOLDING, LEN

Source: COMMUNICATIONS NEWS

Date: 04/01/88 Vol.: 25 No.: 4 Index#: 00016-00

Title: SMALL APERTURE EARTH STATION NETWORKS AND THEIR

RELATIONSHIP TO ISDN

Author: GOLDING, LEONARD S.

Source: GLOBECOM 87 CONFERENCE

Date: 01/01/87 Vol.: No.: Index#: 00017-00

Title: USERS SHOULD BE DOING THEIR ADVANCE PLANNING TO TAKE

ADVANTAGE OF THE ISDN TECHNOLOGIES

Author: HAHN, JAMES

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00118-50

Title: THE GLOBAL SATELLITE NETWORK AND ISDN

Author: HAMPTON, J.

Source: NETWORK PLANNING IN THE 1990'S - SYMPOSIUM SEPT. 89

Date: 01/01/89 Vol.: No.: Index#: 00018-00

Title: PROPAGATION ASPECTS OF ISDN SATELLITE LINKS ABOVE 10 GHZ

Author: HENDRICKX, M. P. Source: ICAP 89 CONFERENCE

Date: 01/01/89 Vol.: No.: Index#: 00019-00

Title: THE ADVANCED COMMUNICATIONS TECHNOLOGY SATELLITE COMPILATION OF ISDN CAPABILITIES

Author: HOVORKA, DIRK S.

Source: ITP - UNIVERSITY OF COLORADO NASA (NAGW-1105)

Date: 01/01/90 Vol.: No.: Index#: 00020-00

Title: SYNCHRONIZATION OF REMOTE DIGITAL CLUSTERS VIA SATELLITE FOR

ISDN

Author: JOHANNSEN, KLAUS G.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS

Date: 07/01/87 Vol.: 5 No.: Index#: 00021-00

Title: ADVANCED SATELLITE SYSTEM ARCHITECTURE FOR VSATS WITH ISDN

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Author: JORASCH, RONALD E. ET.AL.

Source: AIAA INTERNATIONAL COMMUNICATION SATELLITE SYSTEMS

CONFERENCE MARCH 88

Date: 01/01/88 Vol.: No.: Index#: 00022-00

Title: ISDN IMPLEMENTATION STRATEGY OF THE DEUTSCHE BUNDESPOST

TELCKOVE Author: KAHL, PETER

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00022-50

Title: IT OFFERS MORE CAPACITY THAN ITS PRIMARY NEED, SO ISDN'S D

CHANNEL COULD ADD OTHER USERS

Author: KEOGH, CAROLE

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00123-10

Title: INCLUDING SATELLITES IN ISDN

Author: KERVER, TOM

Source: SATELLITE COMMUNICATIONS

Date: 11/01/88 Vol.: 12 No.: 11 Index#: 00023-00

Title: AN OVERVIEW OF SATELLITE TRANSMISSION ISSUES AND THE ISDN

Author: KNIGHT, IVOR N. ET.AL. Source: ICC 86 CONFERENCE IUNE 86

Date: 01/01/86 Vol.: No.: Index#: 00024-00

Title: APPLICABILITY OF ATM TECHNIQUES TO SATELLITE COMMUNICATIONS

SYSTEMS

Author: KUHLEN, H. ET.AL.

Source: ICDSC-8 CONFERENCE APRIL 89 Date: 01/01/89 Vol.: No.: Index#: 00025-00

Title: EARTH STATIONS FOR NEW STANDARDS, SYSTEMS AND SERVICES

Author: LEFRANCOIS, G.

Source: ELECTRICAL COMMUNICATION

Date: 01/01/88 Vol.: 62 No.: 1 Index#: 00026-00

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Author: LEWIS, J.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATION

Date: 10/01/83 Vol.: 1 No.: Index#: 00027-00

Title: KU-BAND PAYLOAD TRADE-OFFS FOR ISDN SERVICES IN EUROPE

Author: LOPRIORE, M. ET.AL.

Source: AIAA INTERNATIONAL COMMUNICATION SATELLITE SYSTEMS

CONFERENCE AND EXHIBIT

Date: 01/01/90 Vol.: No.: Index#: 00028-00

Title: DATA APPLICATIONS IN AN ISDN ENVIRONMENT

Author: MAIDEN, RICK

Source: THESIS (MS) ITP-UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/89 Vol.: No.: Index#: 00129-00

Title: MULTI-SERVICE DEMAND ASSIGNMENT SYSTEM AIMING AT ISDN

Author: MATSUO, K. ET.AL.

Source: ICDSC-7 CONFERENCE MAY 86 Date: 01/01/86 Vol.: No.: Index#: 00029-00 Title: SATELLITE ISDN FOR DEVELOPING NATIONS

Author: MCDOUGAL, P. J.

Source: ISDN 87 CONFERENCE - BROADBAND NETWORKS FOR THE FUTURE JUNE

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Date: 01/01/87 Vol.: No.: Index#: 00030-00

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Author: MONTAGUE, M. R.

Source: IEEE COLLOQUIUM ON SATELLITES AND ISDN MAY 89

Date: 01/01/89 Vol.: No.: Index#: 00031-00

Title: ISDN AS AN ENABLER FOR ENTERPRISE INTEGRATION

Author: MORGAN, DAVID ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00031-00

Title: SATELLITE DIGITAL COMMUNICATION SERVICE (SDCS)

Author: MORIHIRO, Y. ET.AL.

Source: REVIEW OF THE ELECTRICAL COMMUNICATION LABORATORIES

Date: 03/01/87 Vol.: 35 No.: 2 Index#: 00032-00

Title: INTERNATIONAL EXTENSIONS OF ISDN AND TERMINAL IMPLICATIONS

Author: PEEL, ERIC

Source: IEEE COMPUTER COMMUNICATIONS Date: 08/01/88 Vol.: 11 No.: 4 Index#: 00032-80

Title: ISDN THE CASE FOR SATELLITES Author: PELTON, J. AND MCDOUGAL, P. J.

Source: SPACE COMMUNICATION AND BROADCASTING

Date: 05/01/87 Vol.: 5 No.: Index#: 00036-01

Title: ISDN SERVICES VIA SATELLITE AND TERRESTRIAL MEANS

Author: PELTON, J. N.

Source: TELECOMMUNICATIONS JOURNAL Date: 06/01/89 Vol.: 56 No.: 6 Index#: 00034-00

Title: ISDN: SATELLITES VERSUS CABLE

Author: PELTON, J. N.

Source: TELECOMMUNICATIONS

Date: 06/01/88 Vol.: 22 No.: 6 Index#: 00035-00

Title: SATELLITES AND FIBER OPTICS IN AN ISDN WORLD

Author: PELTON, JOSEPH N.

Source: SPACE COMMUNICATION AND BROADCASTING

Date: 06/01/89 Vol.: 6 No.: Index#: 00033-00

Title: SATELLITES AND FIBER OPTICS IN OUR ISDN WORLD

Author: PELTON, JOSEPH N.

Source: SPACE COMMUNICATIONS AND BROADCASTING

Date: 06/01/89 Vol.: 6 No.: 5 Index#: 00036-00

Title: ISDN MUST INCORPORATE SATELLITE TECHNOLOGY TO CLOSE POSSIBLE

GAPS IN THE GLOBAL NET Author: PELTON, JOSEPH N. ET.AL Source: COMMUNICATIONS NEWS

Date: 11/01/87 Vol.: 24 No.: 1 Index#: 00034-10

Title: A TST/SS-TDMA TELECOMMUNICATIONS SYSTEM - FROM CABLE TO

SWITCHBOARD IN THE SKY

Author: PENNONI, G.

Source: ESA

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Title: ASSESSMENT OF THE STATUS AND TRENDS IN SATELLITE

COMMUNICATIONS 1986-88

Author: POLEY, W. A. ET.AL.

Source: NASA REPORT NAS 1.15:88867; E-3270; NASA-TM-88867

Date: 11/01/86 Vol.: No.: Index#: 00036-02

Title: ISDN AND SATELLITES

Author: POTTS, JIM

Source: SATELLITE COMMUNICATIONS

Date: 08/01/86 Vol.: 10 No.: 8 Index#: 00037-00

Title: ERROR PERFORMANCE OR SATELLITE ISDN CONNECTIONS

Author: PUGA, MARCOS W. ET.AL. Source: GLOBECOM 87 CONFERENCE

Date: 01/01/87 Vol.: No.: Index#: 00038-00

Title: SATELLITE COMMUNCATION PROTOCOLS - A PERFORMANCE

Author: OUERNHEIM, U.

Source: AACHENER LUFORMATIK - BERICHTE, NO. 88-14

Date: 01/01/88 Vol.: No.: Index#: 00038-01

Title: THE VALUE OF ISDN FOR BANKING APPLICATIONS

Author: RICHARDS, DAVE ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00140-00

Title: ISDN APPLICATIONS AT TENNECO GAS

Author: ROY, RUSSELL

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00038-50

Title: GENERAL CONSIDERATIONS CONCERNING THE INTEGRATION OF SATELLITES INTO A REGIONAL ISDN

Author: SAMUEL, R. J.

Source: IEEE COLLOQUIUM ON SATELLITES AND ISDN MAY 89

Date: 01/01/89 Vol.: No.: Index#: 00039-00

Title: INFORMATION AGE AND SATELLITE COMMUNICATIONS

Author: SATO, R.

Source: JOURNAL OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND

COMMUNICATION ENGINEERS

Date: 11/01/89 Vol.: 72 No.: 11 Index#: 00040-00

Title: DESIGN AND OPERATIONAL ISSUES OF USAT APPLICATIONS IN ISDN TYPE

NETWORKS

Author: SHARIFI, M. H. ET.AL.

Source: IEEE JOURNAL ON SELECTED AREAS OF COMMUNICATIONS

Date: 10/01/88 Vol.: 6 No.: 8 Index#: 00041-00

Title: ISDN AND THE DEVELOPING WORLD

Author: SINGH, I. B.

Source: TELEPHONE ENGINEER AND MANAGEMENT

Date: 12/01/88 Vol.: 92 No.: 23 Index#: 00042-00

Title: ADVANCED DATA AND ISDN SERVICES IN THE DFS SATELLITE

COMMUNICATIONS SYSTEM
Author: SLABON, RUEDIGER W. ET.AL.
Source: ICDSC-7 CONFERENCE MAY 86
Date: 01/01/86 Vol.: No.: Index#: 00043-00

Title: ISDN; AN INTRODUCTION Author: STALLINGS, WILLIAM

Source: MACMILLIN PUBLISHING COMPANY, NEW YORK

Date: 01/01/89 Vol.: No.: Index#: 00145-00

Title: ISDN: WHAT IS ITS PROMISE?

Author: STEPHENS, GUY M.

Source: SATELLITE COMMUNICATIONS

Date: 06/01/89 Vol.: 13 No.: 7 Index#: 00044-00

Title: STILL TESTING ISDN Author: STEPHENS, GUY M.

Source: SATELLITE COMMUNICATIONS

Date: 03/01/90 Vol.: 14 No.: 3 Index#: 00045-00

Title: ISDN: FIELD EXPERIENCE IN THE REAL WORLD

Author: SZEKERES, TIBOR G.

Source: BUSINESS COMMUNICATIONS REVIEW Date: 06/01/90 Vol.: 20 No.: 6 Index#: 00149-50

Title: TRANSMISSION LINK FACILITIES FOR ISDN

Author: TANAKA, S. ET.AL.

Source: NEC RESEARCH AND DEVELOPMENT Date: 01/01/87 Vol.: No.: Index#: 00046-00

Title: TRANSMISSION AND PERFORMANCE QUALITY STANDARDS FOR

SATELLITE LINKS IN THE ISDN

Author: WEINREICH, D. E.

Source: ICC 86 CONFERENCE JUNE 86

Date: 01/01/86 Vol.: No.: Index#: 00047-00

Title: THE WONDERS OF ISDN BEGIN TO TURN INTO SOME REAL-WORLD

BENEFITS AS USERS COME ON LINE

Author: WILEY, DON

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00047-00

Title: VALUES FOR ISDN ATTRIBUTES

Author: WU, WILLIAM W. ET.AL.

Source: GLOBECOM 87 CONFERENCE NOV. 87 Date: 01/01/87 Vol.: No.: Index#: 00048-00

ISDN Standards

Title: MISSING LINK: 2BIQ, A 4-LEVEL LINE CODE, WILL FINALLY DIGITIZE THE

LOCAL LOOP

Author:

Source: COMMUNICATIONS NEWS

Date: 01/01/90 Vol.: 27 No.: 1 Index#: 00154-00

Title: PREAMBLE AND GENERAL STRUCTURE OF THE I-SERIES

RECOMMENDATIONS FOR ISDN

Author:

Source: CCITT BLUE BOOK RECOMMENDATION I.110

Date: 11/01/88 Vol.: 3 No.: 3.7 Index#: 00155-00

Title: VOCABULARY OF TERMS FOR ISDN

Author:

Source: CCITT BLUE BOOK RECOMMENDATIONS I.112

Date: 11/01/88 Vol.: 3 No.: 3.7 Index#: 00156-00

Title: ISDN Author:

Source: CCITT BLUE BOOK RECOMMENDATIONS I.120

Date: 11/01/88 Vol.: 3 No.: 3.7 Index#: 00158-00

Title: ISDN - NETWORK FUNCTIONAL PRINCIPLES

Author:

Source: CCITT BLUE BOOK RECOMMENDATIONS I.310

Date: 11/01/88 Vol.: 3 No.: 3.8 Index#: 00159-00

Title: ISDN PROTOCOL REFERENCE MODEL

Author:

Source: CCITT BLUE BOOK RECOMMENDATIONS I.320

Date: 11/01/88 Vol.: 3 No.: 3.8 Index#: 00160-00

Title: DEFINITIONS AND GENERAL PRINCIPLES FOR ISDN INTERNETWORKING

Author:

Source: CCITT BLUE BOOK RECOMMENDATIONS I.510

Date: 11/01/80 Vol.: 3 No.: 3.9 Index#: 00162-00

Title: GENERAL STRUCTURE OF THE ISDN INTERNETWORKING

RECOMMENDATIONS

Author:

Source: CCITT BLUE BOOK RECOMMENDATIONS I.500

Date: 11/01/88 Vol.: 3 No.: 3.9 Index#: 00161-00

Title: ISDN-TO-ISDN LAYERED INTERNETWORKING INTERFACE

Author:

Source: CCITT BLUE BOOK RECOMMENDATION I.511

Date: 11/01/88 Vol.: 3 No.: 3.9 Index#: 00163-00

Title: FUNCTIONS AND INFO. FLOWS FOR SERVICES IN THE ISDN

Author:

Source: CCITT BLUE BOOK RECOMMENDATION Q.11

Date: 11/01/88 Vol.: 6 No.: 6.1 Index#: 00164-00

Title: STAGE 2 OF THE METHOD FOR THE CHARACTERIZATION OF SERVICES

SUPPORTED BY AN ISDN

Author:

Source: CCITT BLUE BOOK RECOMMENDATION Q.65

Date: 11/01/88 Vol.: 6 No.: 6.1 Index#: 00165-00

Title: ISDN 64 KBPS CIRCUIT MODE SWITCHED BEARER SERVICES

Author:

Source: CCITT BLUE BOOK, RECOMMENDATION Q.71

Date: 11/01/88 Vol.: 6 No.: 6.1 Index#: 00166-00

Title: INTRO. TO STAGE 2 SERVICES DESCRIPTIONS FOR SUPPLEMENTARY

SERVICE

Author:

Source: CCITT BLUE BOOK, RECOMMENDATION Q.80

Date: 11/01/88 Vol.: 6 No.: 6.1 Index#: 00167-00

Title: UTILITY POLISHES PRIVATE NETWORK

Author:

Source: COMMUNICATIONS NEWS

Date: 01/01/90 Vol.: 27 No.: 1 Index#: 00870-00

Title: SATELLITE NETWORKS IN THE ISDN ERA

Author: AMADESI, P. ET.AL.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS

Date: 10/01/86 Vol.: 4 No.: Index#: 00001-00

Title: HOW WILL ISDN AFFECT NETWORK MANAGEMANT?

Author: BAKER, H. C.

Source: BUSINESS COMMUNICATIONS REVIEW Date: 09/01/89 Vol.: 19 No.: 9 Index#: 00803-00

Title: ISDN RATE ADAPTATION

Author: BEAN, JAMI

Source: COMMUNICATIONS NEWS

Date: 07/01/89 Vol.: 26 No.: 7 Index#: 00101-00

Title: ISDN REAL ECONOMIES, REAL APPLICATIONS

Author: BELITSOS, BYRON

Source: COMPUTER DECISIONS

Date: 06/01/88 Vol.: 20 No.: 6 Index#: 00102-00

Title: ISSUES IN ISDN IMPLEMENTATION

Author: BHATT, ANIL

Source: THESIS (MS) ITP - UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/90 Vol.: No.: Index#: 00103-00

Title: THE IMPACT OF TECHNOLOGY TRENDS ON THE TELECOMMUNICATION

NETWORK Author: BIRING, D. S.

Source: NORTHCOM 87 CONFERENCE SEPT. 1987

Date: 01/01/87 Vol.: No.: Index#: 00806-00

Title: HOW TO PREPARE FOR ISDN

Author: BODIN, MADELINE Source: TELECONNECT

Date: 11/01/89 Vol.: 7 No.: 11 Index#: 00104-00

Title: ISDN STATUS AND OPPORTUNITIES FOR SATELLITE SYSTEMS

Author: CASAS, J. M. ET.AL.

Source: NASA REPORT NO. ESA-STR-220 Date: 01/01/87 Vol.: No.: Index#: 00105-00

Title: IMPLEMENTATION OF SS7: STALTEL'S: EXPERIENCE

Author: CAZZANIGA, MAURIZIO ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00106-00

Title: UPDATE ON ISDN Author: CERVENKA, DANA Source: COMMUNICATIONS

Date: 07/01/90 Vol.: 27 No.: 7 Index#: 00107-00

Title: ISDN AND SATELLITE COMMUNICATIONS

Author: CHITRE, D. M.

Source: COMSAT LABS, CONFERENCE SLIDES

Date: 01/01/90 Vol.: No.: Index#: 00007-00

Title: THE BIG QUESTION IS, WHAT KIND OF AN IMPACT WILL ISDN HAVE ON

YOUR CORPORATE NETWORK?

Author: DEWITT, RUSSELL

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00108-01

Title: ISDN: THE LATEST WEAPON IN THE BATTLE BETWEEN CENTREX AND PBX

Author: DUS, LARRY L.

Source: UNIVERSITY OF COLORADO - ITP THESIS (MS)

Date: 01/01/90 Vol.: No.: Index#: 00109-00

Title: T-1 MUX VENDORS PREPARE WARES FOR ADVENT OF ISDN

Author: ECKERSON, WAYNE Source: NETWORK WORLD

Date: 02/13/89 Vol.: 6 No.: 6 Index#: 00110-00

Title: TRIAL OF OPEN SYSTEMS INTERCONNECTION PROTOCOLS OVER ISDN

Author: EDGAR, C. A.

Source: REPORT # NISTIR - 89/4160

Date: 08/01/89 Vol.: No.: Index#: 00111-00

Title: EUROPE PUSHES ISDN TO BACK SINGLE MARKET

Author: EDWARDS, MORRIS

Source: COMMUNICATIONS NEWS

Date: 06/01/89 Vol.: 26 No.: 6 Index#: 00112-00

Title: COMPETITORS MATCHING AT&T IN THE MIGRATION TO ISDN

Author: EDWARDS, MORRIS

Source: COMMUNICATIONS NEWS

Date: 05/01/86 Vol.: 73 No.: 5 Index#: 00113-00

Title: WITHOUT DEVELOPING NECESSARY TEST PROCEDURES, THE USE OF ISDN

CAN NEVER BECOME REALITY Author: EVENCHIK, LEONARD ET.AL. Source: COMMUNICATIONS NEWS

Date: 05/01/87 Vol.: 24 No.: 5 Index#: 00114-00

Title: DATA NETWORKS IN THE 90'S

Author: FORSON, HENRY

Source: COMMUNICATION NEWS

Date: 12/01/88 Vol.: 25 No.: 12 Index#: 00115-00

Title: THE DEVELOPMENT OF PROPER STANDARDS IS THE KEY TO TURNING THE DREAM OF ISDN INTO THE REALITY

Author: FUNG, KIT ET.AL.

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00116-00

Title: PROPOSAL AND IMPLEMENTATION OF OSI ORIENTED APPLICATION INTERFACE FOR ISDN

Author: FURUYA, N. ET.AL.

Source: KDD TECHNICAL JOURNAL

Date: 07/01/89 Vol.: No.: 141 Index#: 00117-00

Title: RESOURCE MANAGEMENT OF DIMENSIONING IN ATM NETWORKS

Author: GALLASSI, G.; KIGOLIO, G.; VERRI, L.

Source: IEEE NETWORK

Date: 05/01/90 Vol.: 4 No.: 3 Index#: 00117-20

Title: CRITICAL INTERNATIONAL ISSUES MUST BE RESOLVED IF THE PROMISE OF AN ISDN FUTURE IS TO BE KEPT

Author: GILLIS, LESLEY

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00117-40

Title: A CASE FOR PRIVATE ISDN

Author: GUNN, HOWARD

Source: TELECOMMUNICATIONS

Date: 05/01/90 Vol.: 24 No.: 5 Index#: 00118-00

Title: COLOUR FACSIMILE APPARATUS IN ISDN

Author: HAMPEL, H.

Source: TELEMATICA 88 CONFERENCE Date: 01/01/88 Vol.: No.: Index#: 00119-00

Title: ISDN: CATALYST TOWARD AN INFORMATION SOCIETY

Author: HARPEL, TODD C.

Source: THESIS (MS) ITP - UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/88 Vol.: No.: Index#: 00120-00

Title: ISDN APPLICATIONS: THEIR IDENTIFICATION AND DEVELOPMENT

Author: IFFLAND, FREDERICK C. ET.AL.

Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00120-50

Title: INTERNATIONAL ASPECTS OF ISDN - TAKING STOCK

Author: IRMER, T.

Source: TELEMATICA 88 CONFERENCE JUNE 88 Date: 01/01/88 Vol.: No.: Index#: 00121-00

Title: ISDN USER-NETWORK INTERFACE MANAGEMENT PROTOCOL

Author: ISHII, HIROSHI Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00121-10

Title: ISDN OVER THE PACIFIC Author: KAWASAKI, TATSUO Source: TELECOMMUNICATIONS

Date: 08/01/90 Vol.: 24 No.: 8 Index#: 00122-00

Title: THE ROLE OF ISDN SIGNALING IN GLOBAL NETWORKS

Author: KEARNS, TIMOTHY J. ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00123-00

Title: AN IXC'S LOOK AT GLOBAL ISDN

Author: KERO, T. Source: TELEPHONY

Date: 04/23/90 Vol.: 218 No.: 17 Index#: 00242-00

Title: DO-IT YOURSELF ISDN Author: KOENIG, ROGER L.

Source: DATA COMMUNICATIONS

Date: 05/01/89 Vol.: No.: Index#: 00123-11

Title: AN APPROACH TO THE MULTIFUNCTION GRAPHIC TERMINAL FOR THE

ISDN ENVIRONMENT

Author: KOMIGA, TAKASHI ET.AL.

Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00123-20

Title: THE ISDN CHALLENGE IS MANAGEABLE IF THE USER IS ARMED WITH THE

RIGHT NETWORK KNOWLEDGE

Author: LANGFORD, GREG

Source: COMMUNICATIONS NEWS

Date: 01/01/88 Vol.: 25 No.: 1 Index#: 00124-00

Title: ISDN TERMINAL PORTABILITY IN THE RBOC NETWORKS

Author: LASSERS, HAROLD

Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00125-00

Title: COMMON CHANNEL SIGNALING FOR INTERNATIONAL SERVICE

APPLICATIONS

Author: LAWSEN, JOHN J. ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00125-10

Title: STAND AND DELIVER: ISDN'S PROMISE TO THE PBX MARKET OF

TOMORROW

Author: LEIBOWITZ, ED Source: TELECONNECT

Date: 07/01/89 Vol.: 7 No.: 7 Index#: 00126-00

Title: WHAT EVER HAPPENED TO ISDN

Author: LEWIS, P. J. Source: IEE REVIEW

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Title: VISUAL TELEPHONY AS AN ISDN APPLICATION

Author: LIOU, MING L.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 02/01/90 Vol.: 28 No.: 2 Index#: 00127-00

Title: ISDN AND COMPUTER III

Author: LIPMAN, ANDREW D. ET.AL. Source: SATELLITE COMMUNICATIONS

Date: 06/01/86 Vol.: 10 No.: 6 Index#: 00128-00

Title: INTERNETWORKING LANS VIA THE ISDN BEARER SERVICES

Author: MARSDEN, P. N.

Source: IEEE COLLOQUIUM ON INTERCONNECTION OF LANS MAY 90

Date: 01/01/90 Vol.: No.: Index#: 00130-00

Title: MULTI-SERVICE DEMAND ASSIGNMENT SYSTEM AIMING AT ISDN

Author: MATSUO, K. ET.AL.

Source: ICDSC-7 CONFERENCE MAY 86 Date: 01/01/86 Vol.: No.: Index#: 00029-00

Title: SCREEN BASED TELEPHONY

Author: MCNINCH, BOB

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00131-00

Title: ISDN PROTOCOLE Author: MCROBERT, STEVE

Source: COMMUNICATIONS NEWS

Date: 12/01/88 Vol.: 25 No.: 12 Index#: 00132-00

Title: ISDN ADAPTERS MAKERS RACE TO SUPPORT NTI'S DMS-100

Author: MESSMER, ELLEN Source: NETWORK WORLD

Date: 09/03/90 Vol.: 7 No.: 36 Index#: 00133-00

Title: TOWARD AN INTERNATIONAL BROADBAND ISDN STANDARD

Author: MINZER, S. E.

Source: TELECOMMUNICATIONS

Date: 10/01/87 Vol.: 21 No.: 10 Index#: 00133-10

Title: SIGNALING SYSTEM NO. 7: A TUTORIAL

Author: MODARRESSI, ABDI R. ET.AL.

Source:

Date: / / Vol.: No.: Index#: 00134-00

Title: ISDN IS HERE, WILL SOON BE THERE, AND NOW THE QUESTION IS IF AND

WHEN IT WILL BE EVERYWHERE

Author: MORKEN, CAL

Source: COMMUNICATIONS NEWS

Date: 01/01/88 Vol.: 25 No.: 1 Index#: 00135-00

Title: INCEPTION OF INS EXPERIENCE MODEL SYSTEM SETS IN SERVICE (ISDN)

Author: MURAKAMI, T.

Source: JAPAN TELECOMMUNICATIONS REVIEW Date: 01/01/85 Vol.: 27 No.: 1 Index#: 00136-00

Title: ISDN IS COMING, SO NOW'S THE TIME TO PREPARE FOR REALITY BY

BECOMING A BANDWIDTH MANAGER

Author: NEVERS, DAVID

Source: COMMUNICATIONS NEWS

Date: 01/01/88 Vol.: 25 No.: 1 Index#: 00137-00

Title: ASSESSING THE ISDN REVOLUTION: IT'S ON ITS WAY AND IT WILL BE

HERE SOONER THAN YOU MAY THINK

Author: POPKO, JOHN

Source: COMMUNICATIONS NEWS

Date: 10/01/86 Vol.: 23 No.: 10 Index#: 00138-00

Title: ASPECTS OF CCS7 NETWORK CONFIGURATIONS

Author: PUSCH, H.

Source: TELECOMMUNICATIONS

Date: 10/01/87 Vol.: 21 No.: 10 Index#: 00139-00

Title: ISDN: OVERVIEW AND ARCHITECTURAL CONCEPTS

Author: SCHOT, J. ET.AL.

Source: REPORT NO. MEMO-INF-88-42; ISDN-9-03-650202-0

Date: 10/01/87 Vol.: No.: Index#: 00141-00

Title: EXAMINING THE POTENTIAL APPLICATIONS. POSSIBILITIES FOR BUSINESS

MAKING USE OF ISDN FEATURES.

Author: SIMONSON, RICHARD Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00141-20

Title: ISDN AND THE DEVELOPING WORLD

Author: SINGH, I. B.

Source: TELEPHONE ENGINEER AND MANAGEMENT

Date: 12/01/88 Vol.: 92 No.: 23 Index#: 00042-00

Title: WHAT'S RIGHT WITH ISDN

Author: SIROTA, WARREN

Source: COMMUNICATIONS NEWS

Date: 01/01/90 Vol.: 27 No.: 1 Index#: 00142-00

Title: ADVANCED DATA AND ISDN SERVICES IN THE DFS SATELLITE

COMMUNICATIONS SYSTEM Author: SLABON, RUEDIGER W. ET.AL. Source: ICDSC-7 CONFERENCE MAY 86

Date: 01/01/86 Vol.: No.: Index#: 00043-00

Title: THE PROMISE OF ISDN STANDARDS

Author: SMITH, GAIL

Source: COMMUNICATIONS NEWS

Date: 07/01/89 Vol.: 26 No.: 7 Index#: 00144-00

Title: POLICE DEPT.'S BRI LINES TO SUPPORT VOICE, DATA, IMAGES

Author: SMITH, TOM

Source: NETWORK WORLD

Date: 07/23/90 Vol.: 7 No.: 30 Index#: 00143-00

Title: ISDN; AN INTRODUCTION Author: STALLINGS, WILLIAM

Source: MACMILLIN PUBLISHING COMPANY, NEW YORK

Date: 01/01/89 Vol.: No.: Index#: 00145-00

Title: ISDN: WHAT IS ITS PROMISE?

Author: STEPHENS, GUY M.

Source: SATELLITE COMMUNICATIONS

Date: 06/01/89 Vol.: 13 No.: 7 Index#: 00044-00

Title: SOUTHWESTERN BELL TELEPHONE'S ISDN EXPERIENCE

Author: STEPHENSON, RICHARD W.

Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00145-20

Title: THE BUILDING BLOCKS OF ISDN ARE IN PLACE AND THE NETWORK WILL

EVOLVE THROUGH THE DEMANDS OF USERS

Author: STEWART, ADAM

Source: COMMUNICATIONS NEWS

Date: 01/01/88 Vol.: 25 No.: 1 Index#: 00147-00

Title: ISDN 1989: POISED ON THE EDGE OF SUCCESS

Author: STEWART, ALAN

Source: COMMUNICATIONS NEWS

Date: 01/01/89 Vol.: 26 No.: 1 Index#: 00146-00

Title: CAN FEDS HANDLE ISDN?

Author: STEWART, ALAN

Source: COMMUNICATIONS NEWS

Date: 05/01/89 Vol.: 26 No.: 5 Index#: 00148-00

Title: ISDN INTERNET ENVIRONMENT AND STANDARDS ANALYSIS

Author: SU, J. ET.AL.

Source: GEORGIA INSTITUTE OF TECHNOLOGY REPORT NO. ASQBG-C-89-022

Date: 08/01/88 Vol.: No.: Index#: 00149-00

Title: SUCCESS OUT WEST Author: TANZILLO, KEVIN

Source: COMMUNICATIONS NEWS

Date: 01/01/89 Vol.: 26 No.: 1 Index#: 00150-00

Title: A MAIL AND PROTOCOL CONVERSION NODE FOR ISDN FACSIMILIE

APPLICATION

Author: TSUJI, HIROKUNI ET.AL.

Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00151-00

Title: DAVID SYSTEMS GETS \$7M INVESTMENT FOR ISDN R AND D

Author: WALLACE, BOB Source: NETWORK WORLD

Date: 01/30/89 Vol.: 6 No.: 4 Index#: 00152-00

Title: NICE GUYS REFUSE TO FINISH LAST IN ISDN

Author: WALLACE, BOB Source: NETWORK WORLD

Date: 01/30/89 Vol.: 6 No.: 4 Index#: 00153-00

Title: TACTICAL ISDN TECHNOLOGY PROGRAM

Author: WEINSTEIN, C. J. ET.AL.

Source: MIT FINAL REPORT SEPT. 89 NO. ESD-TR-90-010

Date: 09/30/89 Vol.: No.: Index#: 00153-20

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Title: ISDN/87: BROADBAND NETWORKS FOR THE FUTURE

Author:

Source: THIRD INTERNATIONAL INTEGRATED SERVICES DIGITAL NETWORKS

EXPOSITION

Date: 06/01/87 Vol.: No.: Index#: 00285-00

Title: VOCABULARY OF TERMS FOR BROADBAND ASPECTS OF ISDN

Author:

Source: CCITT BLUEBOOK RECOMMENDATION I.113

Date: 01/01/88 Vol.: 3 No.: 3.7 Index#: 00157-00

Title: EXCESS PROCESS POLICING SCHEME FOR BISDN

Author: AAGESEN, F. A. ET.AL.

Source:

Date: 01/18/90 Vol.: No.: Index#: 00201-00

Title: CONCEPT AND REALIZATION OF THE BROADBAND ISDN

Author: ANDRICH, W. ET.AL.

Source: ELECTRICAL COMMUNICATION

Date: 01/01/87 Vol.: 61 No.: 1 Index#: 00202-00

Title: PRESENT STATUS AND FUTURE TRENDS OF THE STUDY OF BROADBAND

ISDN

Author: ASATANI, K. ET.AL.

Source: TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION

AND COMMUNICATIONS ENGINEERS

Date: 11/11/89 Vol.: J72B-I No.: 11 Index#: 00203-00

Title: RACE (RESEARCH AND DEVELOPMENT IN ADVANCED TECH FOR EUROPE)

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Author: BLACKBURN, J. F.

Source: OFFICE OF NAVAL RESEARCH

Date: 03/01/89 Vol.: No.: Index#: 00205-01

Title: A PERSPECTIVE ON FUTURE LARGE SCALE TELELCOMMUNICATIONS

ARCHITECTURES SUPPORTING BISDN SERVICES

Author: BLOOMFIELD, R. S. ET.AL.

Source: BROADBAND FOC/LAN EXPOSITION OCT. 1989

Date: 01/01/89 Vol.: No.: Index#: 00204-00

Title: ASYNCHRONOUS TRANSFER MADE BROADBAND ISDN

Author: BOLT, RAYMOND

Source: COMMUNICATIONS INTERNATIONAL Date: 02/01/89 Vol.: 16 No.: 2 Index#: 00205-00

Title: BROADBAND ISDN: DYNAMIC FORCES IN EVOLUTION

Author: BROYLES III, SAMUEL K.

Source: THESIS (MS) ITP - UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/89 Vol.: No.: Index#: 00206-00

Title: ROUTING AND RESOURCE CONTROL IN THE BROADBAND ISDN

Author: BURGIN, J. L.

Source: AUSTRAILIAN TELECOMMUNICATION RESEARCH

Date: 01/01/88 Vol.: 22 No.: 1 Index#: 00207-00

Title: ARCHITECTURES FOR FUTURE MULTIGIGABIT LIGHTWAVE NETWORKS

Author: BURR, W. E.

Source: NIST REPORT NO. NISTIR-90/4240 Date: 03/01/90 Vol.: No.: Index#: 00207-20

Title: A SECOND-GENERATION BISDN PROTOTYPE

Author: BUSSEY, H. E. ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/88 Vol.: 1 No.: 4 Index#: 00208-00

Title: WORLD-WIDE STANDARDIZATION OF BROADBAND ISDN

Author: BYRNE, W. R. ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/88 Vol.: 1 No.: 4 Index#: 00209-00

Title: BROADBAND ISDN TECHNOLOGY AND ARCHITECTURE

Author: BYRNE, W. R. ET.AL. Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00210-00

Title: BROADBAND ISDN TECHNOLOGY AND ARCHITECTURE

Author: BYRNE, WILLIAM R. ET.AL.

Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00211-00

Title: A PACKET VIDEO/AUDIO SYSTEM USING THE ASYNCHRONOUS TRANSFER

MODE

Author: CHAO, H. J. ET.AL.

Source: IEEE TRANSACTIONS AND CONSUMER ELECTRONICS

Date: 05/01/89 Vol.: 35 No.: 2 Index#: 00212-00

Title: ATM: A CONTRIBUTION TO THE DEBATE ON BROADBAND ISDN

Author: COUDREUSE, J. P.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 12/01/88 Vol.: 1 No.: 4 Index#: 00213-00

Title: BROADBAND ISDN AND PACKETSWITCHING

Author: DAY, A. ET.AL.

Source: TELECOMMUNICATION JOURNAL OF AUSTRALIA

Date: 01/01/89 Vol.: 39 No.: 1 Index#: 00214-00

Title: EVOLUTION FROM ISDN TO BISDN: A LOGICAL STEP TOWARDS ATM

Author: DE PRYCKER, M.

Source: COMPUTER COMMUNICATIONS

Date: 06/01/89 Vol.: 12 No.: 3 Index#: 00216-00

Title: RECENT DEVELOPMENTS IN BROADBAND - ISDN

Author: DE STIGTER, J.

Source: ISDN 88 CONFERENCE

Date: 01/01/88 Vol.: No.: Index#: 00217-00

Title: DATA COMMUNICATION IN AN ATM NETWORK

Author: DEPRYEKER, M.

Source: TELECOMMUNICATIONS (INTERNATIONAL ED.)

Date: 06/01/89 Vol.: 23 No.: 6 Index#: 00215-00

Title: BISDN

Author: DOMANN, G. H.

Source: JOURNAL OF LIGHTWAVE TECHNOLOGY Date: 11/01/88 Vol.: 6 No.: 11 Index#: 00218-00

Title: BROADBAND NETWORK EVOLUTION IN TELECOM AUSTRALIA

Author: DOUGALL, CHARLES I.

Source: IEEE COMMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00219-00

Title: USERS CAN'T WAIT FOR PROMISE OF BROADBAND

Author: ECKERSON, WAYNE Source: NETWORK WORLD

Date: 02/13/89 Vol.: 6 No.: 6 Index#: 00222-00

Title: NARROWBAND AND BROADBAND ISDN CPE DIRECTIONS

Author: EIGEN, D. J.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00220-00

Title: NARROWBAND AND BROADBAND ISDN CPE DIRECTIONS

Author: EIGEN, DARYL J.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00221-00

Title: BROADBAND ISDN Author: FISHER, D. G.

Source: IEEE COMPUTER COMMUNICATIONS Date: 08/01/88 Vol.: 11 No.: 4 Index#: 00223-00

Title: ON THE ROAD TO BROADBAND ISDN

Author: FOLDVIK, RANDOLPH G.

Source: THESIS (MS) ITP UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/88 Vol.: No.: Index#: 00224-00

Title: BROADBAND SERVICE NEEDS

Author: FRAME, M.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00225-00

Title: BROADBAND SERVICE NEEDS

Author: FRAME, MIKE

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00226-00

Title: PROPOSAL ON BASIC STRUCTURE OF SIGNALLING SYSTEMS FOR NETWORKS BASED ON ATM

Author: FUJIOKA, M. ET.AL.

Source: TRANSACTION OF THE INSITIUTE OF ELECTRONICS, INFORMATION AND

COMMUNICATIONS ENGINEERS

Date: 11/01/89 Vol.: J72B-I No.: 11 Index#: 00227-00

Title: CONCEPTUAL ISSUES FOR ATM

Author: GECHTER, JERRY ET.AL.

Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00228-00

Title: CONCEPTUAL ISSUES FOR ATM

Author: GECHTER, JERRY ET.AL.

Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00229-00

Title: WHICH WAY FOR BROADBAND SWITCHING?

Author: GILHOOLY, D.

Source: TELECOMMUNICATIONS

Date: 06/01/87 Vol.: 21 No.: 6 Index#: 00230-00

Title: THE POLITICS OF BROADBAND (NETWORKS)

Author: GILHOOLY, D.

Source: TELECOMMUNICATIONS (INTERNATIONAL EDITION)

Date: 06/01/88 Vol.: 22 No.: 6 Index#: 00231-00

Title: NETWORK EVOLUTION TOWARDS AN ATM-BASED B-ISDN

Author: GIORCELLI, S.

Source: CSELT TECHNICAL REPORTS

Date: 12/01/89 Vol.: 17 No.: 6 Index#: 00232-00

Title: SYNCHRONOUS OPTICAL NETWORKS AND BROADBAND ISDN

PROTOCOLS
Author: HAC, A. ET.AL.
Source: COMPUTER

Date: 11/01/89 Vol.: 22 No.: 11 Index#: 00233-00

Title: ESTIMATION OF THE COST OF SUBSCRIBER - SUBSCRIBER CONNECTION IN

BISDN

Author: HACKBARTH, K. D.

Source: FERNMELDE-INGENIEUR

Date: 03/01/89 Vol.: 43 No.: 3 Index#: 00235-00

Title: COSTS OF AN AVERAGE SUBSCRIBER RELATION IN THE BROADBAND ISDN

Author: HACKBARTH, K. D. ET.AL.

Source: FOURTH INTERNATIONAL PLANNING SYMPOSIUM

Date: 01/01/89 Vol.: No.: Index#: 00234-00

Title: BROADBAND INTEGRATED SERVICES DIGITAL NETWORKS

Author: HANDEL, R.

Source: TELECOMMUNICATIONS

Date: 04/01/87 Vol.: 21 No.: 4 Index#: 00236-00

Title: EVOLUTION OF ISDN TOWARDS BROADBAND ISDN

Author: HANDEL, R. Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00237-00

Title: BROADBAND SWITCHING SYSTEM ARCHITECTURE

Author: HIRAIDE, K. ET.AL.

Source: IEEE IOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 10/01/87 Vol.: SAC-5 No.: 8 Index#: 00238-00

Title: AN ATM SELF-ROUTING SWITCH ARCHITECTURE

Author: HITOSHI, IMAGAWA ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/88 Vol.: 1 No.: 4 Index#: 00239-00

Title: POSSIBLE APPLICATIONS IN BROADBAND NETWORKS (ISDN)

Author: JOBMANN, K. ET.AL.

Source: TELEMATICA CONFERENCE

Date: 01/01/88 Vol.: No.: Index#: 00240-00

Title: DEVELOPMENT OF THE BROADBAND ISDN (B-ISDN) NETWORK

Author: JUVONEN, R. ET.AL.

Source: SAEHKOE ELECTRICITY AND ELECTRONICS

Date: 04/01/90 Vol.: 63 No.: 4 Index#: 00241-00

Title: AN IXC'S LOOK AT GLOBAL ISDN

Author: KERO, T. Source: TELEPHONY

Date: 04/23/90 Vol.: 218 No.: 17 Index#: 00242-00

Title: BROADBAND SWITCHING AND THROUGH SWITCHING IN THE

PRELIMINARY BROADBAND NETWORK (ISDN)

Author: KOECK, K.

Source: TELEMATICA CONFERENCE

Date: 01/01/88 Vol.: No.: Index#: 00243-00

Title: BROADBAND ISDN - A GENERAL PURPOSE UNIVERSAL

COMMUNICATIONS BUS?

Author: KUMAR, A.

Source: INTERNATIONAL CONFERENCE ON DATA COMMUNICATIONS

Date: 01/01/88 Vol.: No.: Index#: 00244-00

Title: THE METAMORPHOSIS OF THE NETWORK (BROADBAND ISDN)

Author: LAVIA, A. Source: TELEPHONY

Date: 12/25/89 Vol.: 217 No.: 27 Index#: 00245-00

Title: PACKET-SWITCHED SERVICES FOR ISDN SUBSCRIBERS

Author: LECLERC, F. ET.AL.

Source: COMMUTATION AND TRANSMISSION Date: 01/01/89 Vol.: 11 No.: 4 Index#: 00246-00

Title: A BROADBAND ISDN EXPERIMENTAL PROTOTYPE SYSTEM

Author: LINNELL, L. ET.AL.

Source: 13TH EUROPEAN CONFERENCE ON OPTICAL COMMUNICATION

TECHNICAL DIGEST

Date: 01/01/87 Vol.: No.: Index#: 00247-00

Title: A HYBRID LIGHTWAVE TRANSMISSION SYSTEM FOR SUBSCARRIER MULTIPLEXED VIDEO AND DIGITAL BISDN SERVICES IN THE LOCAL

LOOP.

Author: LO, C. N.

Source: JOURNAL OF LIGHTWAVE TECHNOLOGY Date: 11/01/89 Vol.: 7 No.: 11 Index#: 00248-00

Title: WHTA, WHEN AND HOW? (BROADBAND ISDN)

Author: LUTKOWITZ, M.

Source: TELEPHONE ENGINEER AND MANAGEMENT

Date: 02/15/90 Vol.: 94 No.: 4 Index#: 00249-00

Title: EXPERIMENTATION ON ASYNCHRONOUS SWITCHING TECHNIQUES FOR

BISDN

Author: MELEN, R.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/88 Vol.: 1 No.: 4 Index#: 00250-00

Title: IMPLEMENTATION OF A BROADBAND INTEGRATED SERVICES HYBRID

NETWORK

Author: MESIYA, M. F.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 01/01/88 Vol.: 26 No.: 1 Index#: 00251-00

Title: TOWARD AN INTERNATIONAL BROADBAND ISDN STANDARD

Author: MINZER, S. E.

Source: TELECOMMUNICATIONS

Date: 10/01/87 Vol.: 21 No.: 10 Index#: 00133-10

Title: NEW DIRECTIONS IN SIGNALING FOR BROADBAND ISDN

Author: MINZER, S. E. ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 02/01/89 Vol.: 27 No.: 2 Index#: 00252-00

Title: A BROADBAND ATM SWITCHING SYSTEM

Author: MURAKAMI, K. ET.AL.

Source: ELECTRONICS AND COMMUNICATIONS IN JAPAN, PART I

Date: 12/01/89 Vol.: 72 No.: 12 Index#: 00253-00

Title: TECHNOLOGIES TOWARDS BROADBAND ISDN

Author: MURANO, K. ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00254-00

Title: TECHNOLOGIES TOWARDS BROADBAND ISDN

Author: MURANO, KAZUO ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00255-00

Title: A MIGRATION STRATEGY TO BISDN

Author: NIAN-CHYI, HUANG

Source: BROADBAND (FOC/LAN) 89 CONFERENCE

Date: 01/01/89 Vol.: No.: Index#: 00256-00

Title: BIGFON AND ITS UTILIZATION POSSIBILITIES

Author: OHNSORGE, H.

Source: NACHRICHTENTECHNISCHE ZEITSCHRIFT Date: 12/01/84 Vol.: 37 No.: 12 Index#: 00257-00

Title: DISCUSSION OF EMERGING BROADBAND ISDN STANDARDS

Author: PARASANNA, P. K. ET.AL.

Source: IEEE TRANSACTIONS ON CONSUMER ELETRONICS

Date: 05/01/89 Vol.: 35 No.: 2 Index#: 00258-00

Title: TERMINAL-TO-NETWORK COMMUNICATION IN AN ATM BASED ISDN

Author: PAUWELS, B.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 01/01/89 Vol.: 2 No.: 1 Index#: 00259-00

Title: FROM BROADBAND ISDN TO MULTIMEDIA COMPUTER NETWORKS

Author: POPESCU-SELETIN, R.

Source: COMPUTER NETWORKS AND ISDN SYSTEMS

Date: 11/24/89 Vol.: 18 No.: 1 Index#: 00260-00

Title: EVOLUTION OF ISDN TOWARDS BROADBAND ISDN

Author: RAINER, HANDEL Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00261-00

Title: BROADBAND ISDN AND THE SUBSCRIBER PREMISES NETWORK

Author: RAO, S.

Source: TELECOMMUNICATIONS (INTERNATIONAL EDITION)

Date: 06/01/88 Vol.: 22 No.: 6 Index#: 00262-00

Title: ATM SWITCHES - BASIC ARCHITECTURES AND THEIR PERFORMANCE

Author: RATHGEB, E. P. ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/89 Vol.: 2 No.: 4 Index#: 00263-00

Title: PROTOCOLS FOR ATM ACCESS NEWORKS

Author: RIDER, MICHAEL J. Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00264-00

Title: STANDARDS GET BACKING.(SYNCHRONOUS OPTICAL NETWORK, OR

SONET, AND ATM)
Author: ROCKWELL, MARK

Source: COMMUNICATIONS WEEK

Date: 10/23/89 Vol.: No.: 271 Index#: 00265-00

Title: ISDN GETS GLOBAL EMBRACE Author: SAGHAFI, MASSOUD M. ET.AL.

Source: TELEPHONY

Date: 04/23/90 Vol.: 218 No.: 17 Index#: 00266-00

Title: NETWORK ARCHITECTS PLAN BROADENING OF FUTURE ISDN

Author: SAZEGARI, STEVEN A.
Source: DATA COMMUNICATIONS

Date: 07/01/87 Vol.: No.: Index#: 00267-00

Title: EFFORTS FOR NATIONWIDE BROADBAND ISDN

Author: SHIMAMURA, K. ET.AL.

Source: JOURNAL OF THE INSTITUTE OF TELEVISION ENGINEERS OF JAPAN

Date: 03/01/89 Vol.: 43 No.: 3 Index#: 00268-00

Title: BRAODBAND STANDARDS PROGRESS AND FUTURE POSSIBILITIES

Author: SINHA, R.

Source: BROADBAND (FOC/LAN) 89 CONFERENCE

Date: 01/01/89 Vol.: No.: Index#: 00269-00

Title: OPEN NETWORK ARCHITECTURES AND BROADBAND ISDN

Author: SOLOMON, R.I.

Source: ISDN: EVOLVING TO ISDN IN NORTH AMERICA CONFERENCE SEPT. 1987

Date: 01/01/87 Vol.: No.: Index#: 00270-00

Title: BROADBAND ISDN - SERVICE VISIONS AND TECHNOLOGICAL REALITIES

Author: SPEARS, D. R.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 01/01/88 Vol.: 1 No.: 1 Index#: 00271-00

Title: BROADBAND ISDN SWITCHING CAPABILITIES FROM A SERVICES

PERSPECTIVE Author: SPEARS, D.R.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 10/01/87 Vol.: No.: 8 Index#: 00272-00

Title: ISDN; AN INTRODUCTION Author: STALLINGS, WILLIAM

Source: MACMILLIN PUBLISHING COMPANY, NEW YORK

Date: 01/01/89 Vol.: No.: Index#: 00145-00

Title: CCITT STANDARDS FORESHADOW BROADBAND ISDN

Author: STALLINGS, WILLIAM Source: TELECOMMUNICATIONS

Date: 03/01/90 Vol.: 24 No.: 3 Index#: 00273-00

Title: ISDN: FROM ITS CURRENT REALITY TO ITS BROADBAND FUTURE

Author: SUMMER, ERIC E. Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00274-01

Title: TECHNOLOGY PERSPECTIVE

Author: SUMNER, ERIC E. Source: IEEE NETWORK

Date: 01/01/89 Vol.: 3 No.: 1 Index#: 00274-00

Title: BROADBAND ISDN ATM LAYER MANAGEMENT: OPERATION, ADMINISTRATION AND MAINTENANCE CONSIDERATIONS

Author: SUSUMU, YONEDA

Source:

Date: 05/01/90 Vol.: 4 No.: 3 Index#: 00274-20

Title: PACKET-SATELLITE NETWORKS: UPDATING AND EXPANDING THE

HYBRID CONCEPT Author: TAFFEL, A. B.

Source: DATA COMMUNICATIONS

Date: 11/01/87 Vol.: 16 No.: 12 Index#: 00275-00

Title: UPGRADING STRATEGIES FOR BISDN SUBSCRIBER LOOPS

Author: TAKASAKI, Y.

Source: JOURNAL OF LIGHTWAVE TECHNOLOGY Date: 11/01/89 Vol.: 7 No.: 11 Index#: 00277-00

Title: PRELIMINARY STUDIES FOR UPGRADABLE BROADBAND ISON PLANNING

Author: TAKOSAKI, Y.

Source: 1ST WORLD ELECTRONIC MEDIA SYMPOSIUM

Date: 01/01/89 Vol.: No.: Index#: 00276-00

Title: MIGRATION TO BROADBAND ISDN

Author: TODA, I.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00278-00

Title: MIGRATION TO BROADBAND ISDN

Author: TODA, IWAO

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00279-00

Title: A BISDN CUSTOMER ACCESS ARCHITECTURE OPTIMIZED IN RELATION TO

NETWORK IMPLEMENTATION TECHNOLOGY

Author: TRONDOLL, A. ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 07/01/89 Vol.: 2 No.: 3 Index#: 00280-00

Title: TELECOMMUNICATIONS IN THE COMING DECADES

Author: WEINSTEIN, STEPHEN B.

Source: IEEE SPECRTRUM

Date: 11/01/87 Vol.: No.: 0018-92 Index#: 00281-00

Title: COMPARISON OF ATM SWITCHING ARCHITECTURES

Author: WULLEMAN, R. ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/89 Vol.: 2 No.: 4 Index#: 00282-00

Title: INTRODUCING THE DISTRIBUTED HIGH-THROUGHPUT PACKET

SWITHCING SYSTEMS INTO THE DDX-P NETWORK

Author: YANO, A.

Source: JAPAN TELECOMMUNICATIONS REVIEW Date: 04/01/87 Vol.: 29 No.: 2 Index#: 00284-00

Title: BROADBAND ISDN ATM LAYER MANAGEMENT: OPERATIONS ADMINISTRATION AND MAINTENANCE CONSIDERATIONS

Author: YONEDA, S. Source: IEEE NETWORK

Date: 05/01/90 Vol.: 4 No.: 3 Index#: 00283-00

Frame Relay or Switching

Title: STUDY OF SSIN PARALLEL PROCESSING INTERCONNECTION NETWORKS

Author: AGRAWAL, D. P.

Source: NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

Date: / / Vol.: No.: Index#: 00311-00

Title: SS/TDMA SATELLITE SYSTEM WITH ON-BOARD TST SWITCHING STAGE

Author: ALARIA, G.B.; PENNONI, G.

Source: INTERNATIONAL CONFERENCE ON COMMUNICATIONS

Date: 06/01/84 Vol.: 12 No.: Index#: 00300-01

Title: USER'S GUIDE TO FRAME RELAY

Author: BHUSHAN, BRIJ

Source: TELECOMMUNICATIONS

Date: 07/01/90 Vol.: No.: Index#: 00300-00

Title: OVERLOAD CONTROL FOR SWITCHES OF COMMUNICATION SYSTEMS: A

TWO-PHASE MODEL OR CALL REQUEST PROCESSING

Author: BOLL, R.K. ET.AL.

Source: NASA REPORT NO. CWI-OS-R8601,B8664684

Date: 01/01/86 Vol.: No.: Index#: 00312-00

Title: FRAME RELAY ISDN PACKET BEARER SERVICE

Author: CARSON, MARGARET E.P.

Source: THESIS (MS) ITP UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/89 Vol.: No.: Index#: 00301-00

Title: A MULTIBEAM PACKET SATALLITE USING RANDOM ACCESS TECHNIQUES

Author: CHANG, J.F.

Source: IEEE TRANSACTIONS ON COMMUNICATIONS Date: 10/01/83 Vol.: COM-31 No.: Index#: 00301-02

Title: ANALYSIS AND DESIGN OF A HIGHLY RELIABLE TRANSPORT

ARCHITECTURE FOR ISDN FRAME RELAY NETWORKS

Author: CHEN, K.J. ET.AL.

Source: IEEE JOURNAL ON SELECTED AREAS OF COMMUNICATION

Date: 10/01/89 Vol.: 7 No.: 8 Index#: 00313-00

Title: CALCULUS FOR NETWORK DELAYS AND A NOTE ON TOPOLOGIES, OF

INTERCONNECTION NETWORKS

Author: CRUZ, R.L.

Source: NATIONAL SCIENCE FOUNDATION REPORT # UILU-ENG-87-229 NSF/ENG-

8708

Date: 07/01/87 Vol.: No.: Index#: 00314-00

Title: GEIS TO BOOST SNA NET WITH FRAME RELAY

Author: DESMOND, PAUL Source: NETWORK WORLD

Date: 09/24/90 Vol.: 7 No.: 39 Index#: 00301-01

Title: CONGESTION CONTROL IN ISDN FRAME RELAY NETWORKS

Author: DOSHI, B.T.

Source: AT&T TECHNICAL JOURNAL

Date: 11/12/88 Vol.: 67 No.: 6 Index#: 00315-00

Title: WHAT USERS CAN EXPECT FORM NEW VIRTUAL WIDEBAND SERVICES

Author: FLEMING, STEPHEN Source: TELECOMMUNICATIONS

Date: 10/01/90 Vol.: No.: Index#: 00302-00

Title: ON BOARD DEMAND SCHEDULING OF A SS/TDMA MULTIBEAM

SATELLITE...

Author: FRANK, A.J. AND STERN, T.E.

Source: INTERNATIONAL CONFERENCE ON DIGITAL SATELLITE

COMMUNICATIONS 6TH

Date: 01/01/83 Vol.: No.: Index#: 00302-01

Title: NEAR REALTIME CSG RENDERING USING TREE NORMALIZATION AND

GEOMETRIC PRUNING

Author: GOLDFEATHER, J.

Source: IEEE COMPUTER GRAPHICS AND APPLICATIONS

Date: 05/01/89 Vol.: 9 No.: 3 Index#: 00316-00

Title: MINIMIZING THE NUMBER OF SWITCHINGS IN AN SS/TDMA SYSTEM

Author: GOPAL, I.; WONG, C.K.

Source: SATELLITE AND COMPUTER COMMUNICATIONS; PROC. OF INTN'L

SYMPOSIUM

Date: 01/01/83 Vol.: No.: Index#: 00302-02

Title: A SELF-ROUTING MULTISTAGE SWITCHING NETWORK FOR B-ISDN

Author: KIM, HYONG S.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 04/01/90 Vol.: 8 No.: 3 Index#: 00310-01

Title: SPEECH CODING TECHNOLOGY FOR ATM NETWORKS

Author: KITAWAKI, N. ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 01/01/90 Vol.: 28 No.: 1 Index#: 00303-00

Title: EVALUATING FRAME RELAY AS THE HIGH THROUGHPUT PACKET

TECHNOLOGY FOR CORPS. OF THE 90'S

Author: KORPI, NANCY A.

Source: MS TELECOM THESIS FALL '90 Date: 10/01/90 Vol.: No.: Index#: 00304-00

Title: PACKET SWITCHING AND ISDN: HOW DOES IT WORK

Author: KUTREY, JOHN

Source: TELEPHONE ENGINEER AND MANAGEMENT

Date: 12/01/88 Vol.: No.: Index#: 00305-00

Title: PACKET MODE SERVICES

Author: LAI, WAI SUM

Source: COMPUTER COMMUNICATIONS

Date: 02/01/89 Vol.: 12 No.: 1 Index#: 00318-00

Title: SOME EXPERIENCE WITH LAN INTERCONNECTION VIA FRAME RELAYING

Author: LAMONT, JIM ET.AL.

Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00306-00

Title: IMPART OF CCITT MHS STRUCTURE ON PERFORMANCE

Author: LEE, PAUL

Source: IEEE COMMUNICATIONS MAGAZINE Date: 09/01/90 Vol.: 28 No.: 9 Index#: 00307-00

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Author: MARCONICCHIO, F.

Source: TELESPACIO ROME GLOBCOM CONFERENCE PAPER

Date: 01/01/87 Vol.: No.: Index#: 00913-00

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PITFALLS

Author: MCQUINLAN, J.

Source: BUSINESS COMMUNICATIONS REVIEW Date: 11/01/89 Vol.: 19 No.: 11 Index#: 00319-00

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Author: MINE, H.; OHNO, K.; SHIOYANA, T.

Source: IEEE TRANSACTIONS ON COMMUNICATIONS

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Title: MULTIPLE ROUTING CIRCUIT COST MINIMIZATION FOR A TRANSMISSION

NETWORK Author: MOCCI, U.

Source: NASA REPORT NO. FUB-38-1979 Date: 12/01/79 Vol.: No.: Index#: 00320-00

Title: ANALYSIS OF A DISCRETE TIME SINGLE-SERVER QUEUE WITH BURSTY

INPUTS FOR TRAFFIC CONTROL IN ATM NETWORK

Author: MURATA, MASAYUKI

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 04/01/90 Vol.: 8 No.: 3 Index#: 00310-02

Title: ANALYSIS AND APPLICATION OF FRAMED ALOHA CHANNEL IN

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Author: OKADA, H.; IGARASHI, Y.; NAKANISHI, Y.

Source: ELECTRONICS AND COMMUNICATIONS IN JAPAN

Date: 08/01/77 Vol.: 60 No.: Index#: 00307-02

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Author: PENNONI, G.

Source: ESA

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Author: SCARCELLA, T.; AND ABBOT, R.V. Source: IEEE COMMUNICAITONS MAGAZINE Date: 05/01/83 Vol.: 21 No.: Index#: 00722-00

Title: CIRCUIT AND PACKET INTEGRATED SWITCHING IN A SATELLITE

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Author: SUDA, T.; HASEGAWA, T.

Source: ELECTRONICS AND COMMUNICATIONS IN JAPAN

Date: 02/01/82 Vol.: 65 No.: Index#: 00307-04

Title: FAST PACKET SWITCH ARCHITECTURES FOR B-ISDN

Author: TOBAGI, FOUAD A.

Source: PROCEEDING OF THE IEEE

Date: 01/01/90 Vol.: 78 No.: 1 Index#: 00308-00

Title: APPROXIMATE ANALYSIS OF TIME SYNCHRONOUS PACKET NETWORKS

Author: VITABI, ANDREW M.

Source: IEEE JOURNAL OF SELECTED AREAS IN COMMUNICATIONS

Date: 09/01/86 Vol.: 4 No.: 6 Index#: 00322-00

Title: NETWORK AND MODEL ARCHITECTURES FOR THE INTERNET WORKING BETWEEN FRAME RELAYING SERVICES

Author: WAI, SUM LAI

Source: COMPUTER COMMUNICATION REVIEW Date: 01/01/89 Vol.: 19 No.: 1 Index#: 00308-01

Title: USERS TAKE WARY VIEW OF FRAME RELAY

Author: WALLACE, BOB Source: NETWORK WORLD

Date: 10/22/90 Vol.: 7 No.: 43 Index#: 00309-00

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ATM NETWORK PERFORMANCE

Author: WOODRUFF, GILLIAN M.

Source: IEEE JOURNAL ON SEL. AREAS IN COMMUNICATIONS

Date: 04/01/90 Vol.: 8 No.: 3 Index#: 00310-00

Computer Networks and Satellites

Title: SATELLITE DATA NETWORKS FOR NATIONAL DEVELOPMENT

Author: ABRAMSON, NORMAN

Source: TELECOMMUNICATION POLICY

Date: 03/01/84 Vol.: 18n1 No.: Index#: 00400-02

Title: CONSUMER DRIVEN DEMAND: MEANS HEALTHY SNG MARKET OUTLOOK

Author: BLUM, STEPHEN A. Source: VIA SATELLITE

Date: 12/01/90 Vol.: V No.: 12 Index#: 00422-00

Title: USERS TALK VSATS PART I Author: CALDWELL, RICHARD

Source: VIA SATELLITE

Date: 04/01/88 Vol.: 3 No.: 4 Index#: 00423-00

Title: USERS TALK VSATS PART II Author: CALDWELL, RICHARD

Source: VIA SATELLITE

Date: 05/01/89 Vol.: 4 No.: 5 Index#: 00424-00

Title: THE MORE TOWARD DATA Author: CALDWELL, RICHARD H.

Source: SATELLITE COMMUNICATIONS
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Title: CCSDS TELEMETRY SYSTEMS EXPERIENCE OF GODDARD SPACE FLIGHT

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Author: CARPER, RICHARD D. ET.AL.

Source: IEEE NETWORK

Date: 09/01/90 Vol.: 4 No.: 5 Index#: 00401-00

Title: CORPORATE NETWORKS AND THE COMPETITIVE EDGE

Author: CHASE, SCOTT Source: VIA SATELLITE

Date: 01/01/89 Vol.: 4 No.: 1 Index#: 00425-00

Title: VSAT REALITIES: THE INDUSTRY SPEAKS

Author: CHASE, SCOTT Source: VIA SATELLITE

Date: 10/01/88 Vol.: 3 No.: 10 Index#: 00426-00

Title: RADIO AND SATELLITES: THE NEW NETWORKS, THE NEW

OPPORTUNITIES Author: CHASE, SCOTT Source: VIA SATELLITE

Date: 09/01/88 Vol.: 3 No.: 9 Index#: 00427-00

Title: VSATS IN AMERICA Author: CHASE, SCOTT Source: VIA SATELLITE

Date: 11/01/90 Vol.: V No.: 11 Index#: 00428-00

Title: FLYAWAYS AND TRANSPORTABLES

Author: CHASE, SCOTT Source: VIA SATELLITE

Date: 11/01/88 Vol.: 3 No.: 11 Index#: 00431-01

Title: BY SHARING A VSAT VAN, A SMALL USER IS ABLE TO GET THE SAME

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Author: CLARK, AL ET.AL.

Source: COMMUNICATIONS NEWS (SPECIAL REPORT: SATELLITE

COMMUNICATIONS)

Date: 03/01/87 Vol.: No.: Index#: 00406-02

Title: VSAT BASED VIDEOCONFERENCING NETWORKS

Author: COUIAMAWI, E.R.

Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00450-00

Title: S. AMERICAN CARRIERS SUPPORT DIGITAL LINKS

Author: CROCKETT, BARTON Source: NETWORK WORLD

Date: 09/24/90 Vol.: 7 No.: 39 Index#: 00429-00

Title: VIDEO CONFERENCING NETWORK IS LINKED BY SATELLITE TO 26 EARTH

STATIONS

Author: DANNA, SAMMY

Source: COMMUNICATIONS NEWS

Date: 02/01/86 Vol.: 23 No.: 2 Index#: 00402-00

Title: MICRO EARTH-STATIONS-TECHNOLOGY AND APPLICATIONS

Author: DEMAN, CRAIG

Source: TELEMATICS AND INFORMATICS Date: 01/01/87 Vol.: 4 No.: 1 Index#: 00443-00 Title: VSAT NET GIVES MCKESSON COMPETITIVE EDGE, SAVINGS

Author: DESMOND, PAUL Source: NETWORK WORLD

Date: 10/24/88 Vol.: 5 No.: 43 Index#: 00430-00

Title: THE SHARE A HUB ALTERNATIVE EMERGES

Author: EAGLE, BRYAN M. Source: VIA SATELLITE

Date: 11/01/88 Vol.: 3 No.: 11 Index#: 00431-00

Title: DATA DRIVING CHRYSLER'S VSAT NETWORK

Author: ECKEL, KATHY

Source: SATELLITE COMMUNICATIONS
Date: 05/01/89 Vol.: No.: Index#: 00403-00

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Author: EDWARDS, MORRIS

Source: COMMUNICATIONS NEWS

Date: 07/01/86 Vol.: No.: Index#: 00420-01

Title: LESS DEVELOPED COUNTRIES AND SATELLITE COMMUNICATIONS

Author: EL KOUCH, RACHID

Source: THESIS (MS) ITP-UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/89 Vol.: No.: Index#: 00404-00

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Source: IEEE NETWORK

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Author: FAINE, E. A.

Source: PTC 1990 CONFERENCE

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Title: SNG NETWORK IS DESIGNED FOR TRANSPORTABLE UPLINKS

Author: FLYNN, BRANWELL

Source: COMMUNICATIONS NEWS

Date: 04/01/86 Vol.: 23 No.: 4 Index#: 00405-00

Title: HOW TO AVOID PITFALLS AND PRATFALLS WHEN BUYING YOUR OWN

VSAT SATELLITE NETWORK AND SERVICE

Author: FRIEDMAN, DAVID

Source: COMMUNICATIONS NEWS (SPECIAL REPORT: SATELLITE

COMMUNICATIONS)

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Author: GALLAGHER, M.L. ET.AL.

Source: REPORT NO. NAS 1.26:184594;RIACS-M88.5;NASA-CR-184592

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Author: GARNER, WILLIAM

Source: COMMUNICATIONS NEWS

Date: 03/01/88 Vol.: 75 No.: 3 Index#: 00908-00

Title: USAT TECHNOLOGY FOR TODAY AND FOR THE FUTURE PART 7

Author: GOLDING, LEN

Source: COMMUNICATIONS NEWS

Date: 04/01/88 Vol.: 25 No.: 4 Index#: 00016-00

Title: COMMUNICATION SATELLITES AND THE HDLC PROTOCOL

Author: GROTHE, DAVID ET.AL.

Source: SATELLITE COMMUNICATIONS Date: 09/01/89 Vol.: No.: Index#: 00407-00

Title: SATELLITES IN CONTINGENCY PLANNING

Author: HAWKINS, DON

Source: COMMUNICATIONS NEWS

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Author: HAYAKAWA, FUMIYASU

Source: AT&T LIBRARY NETWORK/IEEE Date: 03/01/88 Vol.: No.: Index#: 00408-00

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Author: HOOKE, ADRIAN J. Source: IEEE NETWORK

Date: 09/01/90 Vol.: 4 No.: 5 Index#: 00401-02

Title: ECONOMICS OF PRIVATE PACKET SWITCHING AND VSAT NETWORKS

Author: HOSSEIN, M. Source: IEEE NETWORK

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Title: QUALCOMM: MESSAGES ON THE MOVE

Author: HOUSE, JIM Source: VIA SATELLITE

Date: 09/01/89 Vol.: 4 No.: 9 Index#: 00435-00

Title: TODAY'S VSAT NETWORKS

Author: HOWES, KAREN J.P. Source: VIA SATELLITE

Date: 01/01/90 Vol.: V No.: 1 Index#: 00436-00

Title: SMALL APARTURE EARTH STATIONS CAN BE ALTERNATIVE TO PRIVATE

LINE NETWORKS Author: HUANG, LARRY

Source: COMMUNICATIONS NEWS

Date: 03/01/86 Vol.: 23 No.: 3 Index#: 00410-00

Title: VSAT TECH. FOR TODAY AND FOR THE FUTURE-PART 5 PLANNING AND

IMPLEMENTING THE NETWORK

Author: IONES, LAWRENCE

Source: COMMUNICATIONS NEWS

Date: 02/01/88 Vol.: No.: Index#: 00411-00

Title: THE HYBRID APPROACH: MIXING SATELLITE WITH LAND BASED

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Author: KAMAL, CHERIN S.

Source: COMMUNICATIONS NEWS

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Title: MULTIBEAM SYSTEM APPLICATIONS AND IMPACT ON SATELLITE

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Author: KAWAI, M. AND NAKAYA, K.

Source: NTT RADIO/41ST CONGRESS OF INTERNATIONAL ASTRONAUTICAL

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Date: 10/06/90 Vol.: No.: IAF-90- Index#: 01012-00

Title: EMBRACING VSATS Author: KERVER, TOM

Source: SATELLITE COMMUNICATIONS

Date: 05/01/87 Vol.: No.: Index#: 00413-00

Title: THE POTENTIAL OF THE INMARSAT STANDARD-C SYSTEM IN THE PACIFIC

REGION

Author: KHADEM, RAMIN ET.AL. Source: PTC 1990 CONFERENCE

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Title: NEW DIRECTIONS IN BYPASS

Author: KOLODZIEJ, STAN Source: COMPUTERWORLD

Date: 09/17/86 Vol.: 20 No.: 37 Index#: 00434-00

Title: INTERNATIONAL DIGITAL BUSINESS SERVICES VIA SATELLITE

Author: KOPINSKI, JOHN

Source: PTC 1990 CONFERENCE

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Author: KUHNS, MUHAMMAD ET.AL.

Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00449-00

Title: A GUIDE TO IMPLEMENTING DAMA NETWORKS

Author: LEE, S.M.C.

Source: PTX 1990 CONFERENCE

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Title: EARTH STATIONS FOR NEW STANDARDS, SYSTEMS AND SERVICES

Author: LEFRANCOIS, G.

Source: ELECTRICAL COMMUNICATION

Date: 01/01/88 Vol.: 62 No.: 1 Index#: 00026-00

Title: DATA SECURITY IN VSAT SYSTEM

Author: LOCKWOOD, DONNA

Source: SATELLITE COMMUNICATIONS Date: 02/01/90 Vol.: No.: Index#: 00418-02

Title: THE SUCCESSFUL OPERATION OF A SATELLITE SYSTEM DEPENDS...

Author: MCBEATH, JOHN

Source: COMMUNICATIONS NEWS

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Title: INCEPTION OF INS EXPERIENCE MODEL SYSTEM SETS IN SERVICE (ISDN)

Author: MURAKAMI, T.

Source: JAPAN TELECOMMUNICATIONS REVIEW

Date: 01/01/85 Vol.: 27 No.: 1 Index#: 00136-00

Title: ENGINEERING TEST SATELLITE IV AND FUTURE APPLICATIONS

Author: NAKAMARV, K. ET.AL.

Source: 41ST CONGRESS OF THE INTERNATIONAL ASTRONAUTICAL

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Author: NOCEDAL, F.

Source: PROCEEDINGS OF THE IEEE

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Author: NOWICK, STEVEN

Source: SATELLITE COMMUNICATIONS
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Title: NESPAC - A TWO WAY SATELLITE EDUCATION NETWORK

Author: OHTAKE, YASOU ET.AL. Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00446-00

Title: GLOBAL PAGING - AN INMARSAT SOLUTION

Author: PATEL, BASHIR Source: VIA SATELLITE

Date: 10/01/90 Vol.: 5 No.: 10 Index#: 00438-00

Title: CHINESE DATACOMM Author: QINGHUA, ZHAR

Source: COMMUNICATIONS NEWS

Date: 12/01/88 Vol.: 25 No.: 12 Index#: 00439-00

Title: ON TARGET (VSAT SYSTEM FOR TARGET STORES)

Author: ROBERTS, ANNE MARIE

Source: SATELLITE COMMUNICATIONS Date: 07/01/90 Vol.: No.: Index#: 00419-01

Title: VSAT TECHNOLOGY FOR TODAY AND FOR THE FUTURE - REAL WORLD

APPLICATIONS PROVE BENEFITS

Author: SALAMOFF, STEVEN

Source: COMMUNICATIONS NEWS

Date: 01/01/88 Vol.: 25 No.: 1 Index#: 00440-00

Title: FINDING JUST THE RIGHT TECHNOLOGICAL "MIX" HELPS MEET

CHANGING COMMUNICATIONS NEEDS

Author: SCOTT, WILLIAM

Source: COMMUNICATIONS NEWS (SPECIAL REPORT: SATELLITE

COMMUNICATIONS)

Date: 03/01/87 Vol.: No.: Index#: 00406-04

Title: C-BAND VSAT NETWORKING Author: SHAUM, MITTAE ET.AL. Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00414-00

Title: FIRST IN A SERIES TO EXPLAIN VSAT TECH AND ITS MANY APPLICATIONS

TODAY AND TOMORROW

Author: SHIFF, MICHAEL

Source: COMMUNICATIONS NEWS

Date: 09/01/87 Vol.: No.: Index#: 00421-00

Title: SATELLITES ARE CREATING THE CORPORATE VILLAGE IN THE SAME WAY

THEY...

Author: SHIMABUKURO, TOM

Source: COMMUNICATIONS NEWS

Date: 03/01/88 Vol.: 25 No.: 3 Index#: 00908-02

Title: VSATS AND THE PIPELINE INDUSTRY

Author: SIMO, ERNEST

Source: SATELLITE COMMUNICATIONS
Date: 08/01/88 Vol.: No.: Index#: 00415-00

Title: OVERVIEW OF THE SPACE STATION COMMUNICATIONS NETWORKS

Author: SMITH, JOSEPH F. ET.AL.

Source: IEEE NETWORK

Date: 09/01/90 Vol.: 4 No.: 5 Index#: 00401-03

Title: COLLEGE IS USING A SATELLITE/FIBER OPTIC SYSTEM TO HELP TEACH

TELECOMMUNICATIONS TECHNOLOGY

Author: STAFF WRITER

Source: COMMUNICATIONS NEWS (SPECIAL REPORT: SATELLITE

COMMUNICATIONS)

Date: 03/01/87 Vol.: No.: Index#: 00406-03

Title: BANK SPEEDS ITS INTERNATIONAL TRANSACTIONS AND CUTS TELECOM

COSTS WITH IBS SATELLITE SERVICE

Author: STAFF WRITER

Source: COMMUNICATIONS NEWS

Date: 07/01/86 Vol.: No.: Index#: 00420-00

Title: TECHNOLOGY: BEING PULLED BY MARKETS

Author: STEPHENS, GUY

Source: SATELLITE COMMUNICATIONS
Date: 05/01/88 Vol.: No.: Index#: 00416-00

Title: VSAT'S INCREASING PRESENCE IN DATA COMMUNICATIONS

Author: STEPHENS, GUY M.

Source: SATELLITE COMMUNICATIONS
Date: 02/01/90 Vol.: No.: Index#: 00418-00

Title: KEEP THE DATA FLOWING

Author: STEPHENS, GUY M.

Source: SATELLITE COMMUNICATIONS
Date: 02/01/90 Vol.: No.: Index#: 00418-03

Title: THE THIRD WORLD: LEAPING TELECOMMUNICATION HURDLES

Author: STEPHENS, GUY M.

Source: SATELLITE COMMUNICATIONS
Date: 05/01/90 Vol.: No.: Index#: 00419-00

Title: VSAT TECHNOLOGY PROVIDES A PRICE - STABLE AND STRATEGIC TOOL

FOR HANDLING CORPORATE GROWTH

Author: STEWART, ALAN

Source: COMMUNICATIONS NEWS

Date: 05/01/88 Vol.: No.: Index#: 00417-00

Title: USA TODAY AND OTHER LARGE USERS REAP BENEFITS OF RELIABLE HIGH

SPEED COMMUNICATIONS LINKS

Author: STEWART, NAU

Source: COMMUNICATIONS NEWS (SPECIAL REPORT: SATELLITE

COMMUNICATIONS)

Date: 03/01/87 Vol.: No.: Index#: 00406-05

Title: REUTERS' WAY Author: STODDARD, ROB

Source: SATELLITE COMMUNICATIONS

Date: 02/01/87 Vol.: No.: Index#: 00400-01

Title: VSAT NETWORKING WITH OSI

Author: STRATIGOS, JIM Source: VIA SATELLITE

Date: 05/01/90 Vol.: 5 No.: 5 Index#: 00441-00

Title: NASA ADDS NATIONWIDE PAGING AS DEMAND GROWS

Author: WARFIELD, DONALD

Source: VIA SATELLITE

Date: / / Vol.: No.: Index#: 00442-00

Title: VSAT TECHNOLOGY FOR TODAY AND FOR THE FUTURE: PART 3 USE

PRIVATE NETWORK OR LEASED SERVICES?

Author: WILKERSON, DAVID

Source: COMMUNICATIONS NEWS

Date: 11/01/87 Vol.: No.: Index#: 00442-01

Title: LONG DISTANCE TEACHING THROUGH POLAPA SATELLITE

Author: YATIM, NURDIN

Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00445-00

Title: VSATS PROVIDE A QUICK AND ECONOMICAL WAY TO CREATE HIGHLY

SOPHISTICATED DATA COMM NETWORK

Author: YOUSSEFZADEH, EMIL

Source: COMMUNICATIONS NEWS (SPECIAL REPORT: SATELLITE

COMMUNICATIONS)

Date: 03/01/87 Vol.: No.: Index#: 00406-01

ACTS

Title: REPORT OF THE ACTS/SCIENCE WORKSHOP

Author:

Source: UNIVERSITY OF COLORADO; CENTER FOR SPACE AND GEOSCIENCES

POLICY

Date: / / Vol.: No.: Index#: 00516-00

Title: ACTS: THE BLUE PRINT FOR FUTURE TELECOMMUNICATIONS

Author:

Source: NASA

Date: / / Vol.: No.: Index#: 00517-00

Title: ADVANCED COMMUNICATIONS TECHNOLOGY (ACTS) PROGRAM

Author:

Source: NASA-PRESENTATION TO SSAAC/CISS (BY DEAN OLMSTEAD) AND

SCHERTLER, R.

Date: 04/23/90 Vol.: No.: Index#: 00519-00

Title: ACTS SYMPOSIUM BOULDER, COLORADO

Author: Source:

Date: 07/18/90 Vol.: No.: Index#: 00518-00

Title: QUANTIFYING ACTS COMMUNICATION SYSTEM PERFORMANCE

Author: CASS, ROBERT D.

Source: AIAA 12TH INTERNATIONAL COMMUNICATION SATELLITE SYSTEMS

CONFERENCE

Date: / / Vol.: No.: AIAA-88 Index#: 00501-01

Title: NASA'S ADVANCED COMMUNICATION TECHNOLOGY SATELLITE (ACTS)

WILL IT BENEFIT COMMERICAL/MILITARY SATELLITES

Author: COSGROVE, JR., COLIN B.

Source: THESIS (MS) ITP UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/88 Vol.: No.: Index#: 00501-00

Title: THE ADVANCED COMMUNICATIONS TECHNOLOGY SATELLITE (ACTS)

MAKING IT ACCESSIBLE TO SCIENCE USERS

Author: HABEGGER, JAY AND BYERLY, R.

Source: CENTER FOR SPACE AND GEOSCIENCES POLICY - CU/BOULDER

Date: 06/01/90 Vol.: No.: Index#: 00502-00

Title: SWITCHBOARD IN THE SKY

Author: HERBST, KRIS

Source: NETWORK WORLD

Date: 04/17/89 Vol.: 6 No.: 15 Index#: 00503-00

Title: THE ADVANCED COMMUNICATIONS TECHNOLOGY SATELLITE (ACTS)

CAPABILITIES FOR SERVING SCIENCE

Author: MEYER, THOMAS AND BYERLY, R.

Source: CENTER FOR SPACE AND GEOSCIENCES POLICY CU/BOULDER

Date: 05/16/90 Vol.: No.: Index#: 00505-00

Title: NASA'S ADVANCED COMMUNICATION TECHNOLOGY SATELLITE (ACTS):

AN OVERVIEW

Author: NADERI, FM; CAMPANELLA, S. JOSEPH

Source: AIAA INTERNATIONAL COMMUNICATION SATELLITE SYSTEM

CONFERENCE 12TH

Date: 01/01/88 Vol.: No.: Index#: 00506-00

Title: NASA EYES ACTS EXPERIMENTERS BUT HIGH COSTS MAY CURTAIL

NUMBER

Author: NEWS DEPARTMENT

Source: SATELLITE COMMUNICATIONS

Date: 12/01/89 Vol.: 13 No.: 13 Index#: 00507-00

Title: ACTS - THE BLUEPRINT FOR FUTURE TELECOMMUNICATIONS

Author: OLMSTEAD, DEAN A. ET.AL.

Source: VIA SATELLITE

Date: 10/01/89 Vol.: No.: Index#: 00508-00

Title: ACTS AND FEDERAL INDIFFERENCE

Author: STODDARD, ROB

Source: SATELLITE COMMUNICATION Date: / / Vol.: No.: Index#: 00510-00

Title: ACTS: IMPLICATIONS FOR THE 90'S

Author: STODDARD, ROB

Source: SATELLITE COMMUNICATIONS

Date: 01/01/90 Vol.: 14 No.: 1 Index#: 00511-00

Title: MAINTAINING AS NO. 1

Author: STODDARD, ROB

Source: SATELLITE COMMUNICATIONS

Date: 09/01/86 Vol.: 10 No.: 10 Index#: 00512-00

Title: OF HOPES AND DREAMS

Author: STODDARD, ROB

Source: SATELLITE COMMUNICATIONS

Date: 11/01/87 Vol.: 11 No.: 11 Index#: 00513-00

Title: ONBOARD BASEBAND SWITCH CONFIGURATION IN MULTI-BEAM SATELLITE SYSTEM

Author: SUZUKI, S.; AVITA, T.; YABUSAKI, M.; ISHINO, F.

Source: TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS AND

COMMUNICATIONS ENGINEERS OF JAPAN

Date: 11/01/86 Vol.: No.: Index#: 00514-00

Title: ACTS WILL HAVE MAJOR IMPACT ON INDUSTRY

Author: ZARLENGO, GARY ET.AL.

Source: ACTS UPDATE

Date: 01/01/87 Vol.: No.: 87/1 Index#: 00515-00

Traffic Network Simulation

Title: A NEW SATELLITE MULTIPLE ACCESS TECHNIQUE FOR PACKET SWITCHING COMBINING FIXED AND DEMAND ASSIGNMENTS

Author: AHMADI, H. ET.AL.

Source: NTC 80 CONFERENCE PAPER

Date: 01/01/80 Vol.: No.: Index#: 00601-00

Title: STUDY, IMPLEMENTATION AND MODELS OF HOW STORAGE PROTOCOLS FOR INTEGRATED SERVICES NETWORK

Author: AI, W.

Source: ECOLE NATIONALE SUPERIEVRE DES TELECOMMUNICATIONS #ENST-

85E008

Date: / / Vol.: No.: Index#: 00602-00

Title: TELEPHONY TRAFFIC ASPECTS OF A SATELLITE COMMUNICATION

SYSTEM

Author: ANDERBERG, M; AND EDSTROM N.H.

Source: ERICSSON TECHNICS

Date: 01/01/74 Vol.: 30 No.: 1 Index#: 00603-00

Title: A PRACTICAL APPROACH FOR SS/TDMA TRAFFIC ASSIGNMENT

Author: ATIA, O.

Source: ICC '85 CONFERENCE ON COMMUNICATIONS AIAA TECHNICAL LIBRARY

Date: 01/01/85 Vol.: No.: Index#: 00604-00

Title: USE OF THE SIMULA LANGUAGE IN TELEPHONE TRAFFIC SIMULATIONS

Author: BOCCALARO, E. AND GRILLO, D.

Source: REPORT #FUB-41-1978 (NIIS)

Date: 11/01/78 Vol.: No.: Index#: 00605-00

Title: AVAILABILITY, MAINTENANCE AND COST OF COMMERCIAL SATELLITE

SYSTEMS

Author: CANTAVELLA, G. P.

Source: INTERNATIONAL CONFERENCE ON COMMUNICATIONS 1973

Date: 01/01/73 Vol.: 2 No.: Index#: 00606-00

Title: INTELSAT PLANNING AND MODELLING SOFTWARE IN SUPPORT OF IDR

Author: DVESING, RICHARD W. AND KELINSKY, M. J.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS

Date: 12/01/88 Vol.: No.: Index#: 00607-00

Title: LINK CALCULATION METHOD FOR 30/20 GHZ BAND SATELLITE COMMUNICATIONS SYSTEM

Author: HATSUDA, T. AND NAKAJMA, S.; MORIHIRO, Y.

Source: ELECTRICAL COMMUNICATIONS LABORATORIES, REVIEW

Date: 08/01/80 Vol.: 28 No.: Index#: 00608-00

Title: TRENDS IN REGIONAL SATELLITE COMMUNICATIONS AND BROADCASTING

Author: HUGHES, C. D.

Source: ELECTRICAL ENGINEERS CONFERENCE 10/70 IEEE CONFERENCE PUB #72

Date: 01/01/70 Vol.: No.: Index#: 00609-00

Title: OPTIONAL TIME SLOT ASSIGNMENT FOR SS/TDMA SYSTEM

Author: ITO, Y.; VRANO Y.; MURATANI, T.

Source: ELECTRONICS AND COMMUNICATIONS IN JAPAN

Date: 02/01/78 Vol.: 61 No.: Index#: 00610-00

Title: COMPUTER MODELLING OF ROUTING PATTERN WITHIN NETWORK CONFIGURATION

Author: KOVAL, D.O. AND HUNGKWENG, KU

Source: PROCEEDINGS OF THE IASTED INTERNATIONAL SYMPOSIUM ON

MODELLING AND SIMULATION

Date: 06/01/85 Vol.: No.: Index#: 00611-00

Title: COMPUTER MODELLING AND SIMULATION OF NETWORK OPERATIONAL PATHS

Author: KOVAL, D.O.; AND HUNGKWENG, KUA

Source: PROCEEDINGS OF THE IASED INTERNATIONAL SYMPOSIUM: APPLIED

SIMULATION

Date: 01/01/85 Vol.: No.: Index#: 00612-00

Title: SPEECH POWER ESTIMATION WITHIN TRUNCATED NORMAL DISTRIBUTION

Author: LU, C. H.

Source: PROCEEDINGS: ICASSP '87 INTERNATIONAL CONFERENCE ON

ACOUSITCS SPEECH AND SIGNAL

Date: / / Vol.: 3 No.: Index#: 00613-00

Title: TRAFFIC SIMULATION IN A TLELPHONE NETWORK VIA SATELLITE WITH PREASSIGNED

Author: MANUCCI, G. AND TONIETTA, A.

Source: CENTVOSTUDI LABORATORI TELECOMUNICAZIONI/AIAA TECHNICAL LIBRARY

Date: 03/01/79 Vol.: No.: Index#: 00614-00

Title: MODELS AND ALGORITHMS FOR OPTIMAL TRAFFIC ASSIGNMENT IN SSTDMA SWITCHING SYSTEMS

Author: MINOUX, M.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS

Date: 03/01/87 Vol.: 5 No.: JAN/MAR Index#: 00952-00

Title: A STUDY ON SATELLITE CIRCUIT ASSIGNMENT AND DIMENSIONING METHODS...

Author: MIYAKE, K.

Source: ELECTRONICS AND COMMUNICATIONS IN JAPAN, PART 1; AIAA

TECHNICAL LIBRARY

Date: 02/01/85 Vol.: No.: Index#: 00615-00

Title: COEXISTENCE OF FREQUENCY HOPPING AND FM: AN INTERLEAVING OVERLAY APPROACH

Author: RAZ, GHULAM H.

Source: GLOBECOM '87 - GLOBAL TLELCOMMUNICATIONS CONFERENCE

Date: 01/01/87 Vol.: 1 No.: Index#: 00616-00

Title: SIMULATION OF MARISAT OFFSHORE DATA TRANSFER (SATELLITE COMMUNICATION SYSTEM)

Author: WEINREICH, D. E.

Source: COMMUNICATIONS SATELLITE SYSTEMS CONFERENCE 7TH

Date: 01/01/78 Vol.: No.: IAA7813 Index#: 00617-00

Title: PERFORMANCE MODELING OF SIGNALING SYSTEM NO. 7

Author: WILLMANN, GERT ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00865-00

Satellite Orbits

Title: SATELLITES HAVE REVOLUTIONIZED COMMUNICATIONS WORLD SINCE SATCOMM...

Author:

Source: COMMUNICATIONS NEWS

Date: 03/01/88 Vol.: 25 No.: 3 Index#: 00908-03

Title: SOME TECHNICAL FEATURES OF LOW ORBIT SATELLITES Author: ARDVINI, C.; BOUNGIORA G.; PONZI, U.; RAVELLI, G. Source: SERI - ITS ATTI DEL CENTRO RIC AEROSPAZIALE NO. 21

Date: 03/01/69 Vol.: No.: 21 Index#: 00700-00

Titletle: PACKET SWITCHING FOR MOBILE EARTH STATIONS VIA LOW-ORBIT

SATELLITE Author: BRAYER, K.

Source: IEEE PROCEEDING

Date: 11/01/84 Vol.: 72 No.: Index#: 00701-00

Title: ENGINEERING TEST SATELLITE VI

Author: BROCHURE Source: NASDA - JAPAN

Date: 01/01/90 Vol.: No.: Index#: 00702-00

Title: HORIZON SENSOR FOR A LOW-ORBIT SATELLITE WITH THREE-AXIS

ATTITUDE STABILIZATION Author: DESVIGNES, F. ET.AL.

Source: FRENCH JOURNAL TRANSLATION / ACTA ELECTRONICA

Date: 07/01/70 Vol.: 13 No.: Index#: 00703-00

Title: CELLULAR PACKET COMMUNICATIONS

Author: GOODMAN, DAVID J.

Source: IEEE TRANSCRIPT ON COMMUNICATION Date: 08/01/90 Vol.: 38 No.: 8 Index#: 00704-00

Title: MOTOROLA BIDS TO RING THE WORLD

Author: GREEN-ARMATAGE, J. Source: COMPUTER WEEKLY

Date: 07/05/90 Vol.: No.: 1221 Index#: 00819-00

Title: ORBIT/SPECTRUM UTILIZATION STUDY V.1

Author: JERUCHIM, M.C.; AND SAYER, T.C.

Source: GENERAL ELECTRIC COMPANY REPORT #69SD4270

Date: / / Vol.: 1 No.: Index#: 00704-01

Title: CDMA VS FDMA CHANNEL CAPACITY IN MOBILE SATELLITE

Author: JOHANNSEN, KLAUS G.

Source: IEEE TRANSCRIPT ON VEHICULAR TECHNOLOGY

Date: 02/01/90 Vol.: 39 No.: 1 Index#: 00705-00

Title: SATCOM IN THE SOVIET UNION

Author: JOHNSON, NICHOLAS L.

Source: SATELLITE COMMUNICATIONS Date: 06/01/88 Vol.: No.: Index#: 00706-00

Title: A SYSTEM SIMULATOR FOR HOW ORBIT SATELLITE COMMUNICATION

NETWORK

Author: KALDENBACH, BRIAN ET.AL.

Source: MILCOM '87 - IEEE MILITARY COMMUNICATIONS CONFERENCE

Date: 01/01/87 Vol.: No.: 1 Index#: 00720-00

Title: ORBIT/SPECTRUM UTILIZATION STUDY V.III ECONOMIC CONSIDERATION

Author: KAN, D.A.; AND JERUCHIM, M.C.

Source: GENERAL ELECTRIC COMPANY NTIS REPORT #70SD4246

Date: 06/30/70 Vol.: III No.: Index#: 00707-00

Title: LOW-EARTH ORBIT GLOBAL CELLULAR COMMUNICATIONS NETWORK

Author: LEOPOLD, RAYMOND J.

Source: MOTOROLA SATELLITE COMMUNICATIONS

Date: 08/23/90 Vol.: No.: Index#: 00708-00

Title: LOW-ORBIT SATELLITES - AN INTERFERENCE MODEL

Author: LOCKE, P. AND RINKER, A.

Source: ITU TELECOMMUNICATION JOURNAL Date: 05/01/78 Vol.: 45 No.: Index#: 00709-00

Title: KU-BAND PAYLOAD TRADE-OFFS FOR ISDN SERVICES IN EUROPE

Author: LOPRIORE, M. ET.AL.

Source: AIAA INTERNATIONAL COMMUNICATION SATELLITE SYSTEMS

CONFERENCE AND EXHIBIT

Date: 01/01/90 Vol.: No.: Index#: 00028-00

Title: GEOSTATIONARY OPERATIONAL ENVIRONMENTAL SATELLITE DATA

COLLECTION SYSTEM

Author: MACCALLUM, DOUGLAS H. ET.AL.

Source: NATIONAL ENVIRONMENTAL SATELLITE DATA AND INFORMATION

SERVICE, D.C. NTIS: PC A04/NF A01

Date: 06/01/83 Vol.: No.: Index#: 00721-00

Title: C-BOUND SATELLITE LOCATIONS

Author: MORGAN, WALTER C.

Source: SATELLITE COMMUNICATIONS
Date: 12/01/90 Vol.: No.: Index#: 00710-00

Title: DEVELOPMENT OF AERONAUTICAL SATELLITE COMMUNICATION

Author: NAKAMURA, HIROGUKI ET.AL.

Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00448-00

Title: INCLINED ORBIT OPERATIONS WITH TRANSPORTABLE TERMINALS

Author: OVERSTREET, JOHN

Source: VIA SATELLITE

Date: 10/01/90 Vol.: 5 No.: 10 Index#: 00710-01

Title: 21ST CENTURY SATELLITE COMMUNICATIONS

Author: PELTON, JOSEPH N. Source: VIA SATELLITE

Date: 12/01/88 Vol.: 3 No.: Index#: 00710-02

Title: SYSTEM CONSIDERATIONS IN INTELSAT DOMESTIC NETWORK

Author: PEVILLAN, L. AND EFTEKHAVI, R.

Source: NTC '80; NATIONAL TELECOMMUNICATIONS CONFERENCE

Date: 12/04/80 Vol.: 2 No.: Index#: 00711-00

Title: ITALSAT: MOVING TO KA-BAND

Author: PIVARD, THEO

Source: SATELLITE COMMUNICATIONS
Date: 07/01/88 Vol.: No.: Index#: 00712-00

Title: ORBITAL DESIGN STRATEGY FOR DOMESTIC COMMUNICATION SATELLITE

SYSTEMS

Author: RAMIL S AND SAWITZ, P.

Source: INTERNATIONAL CONFERENCE ON COMMUNICATION

Date: 01/01/73 Vol.: 2 No.: Index#: 00713-00

Title: FINDING FIXED SATELLITE SERVICE ORBITS WITH A K-PERMNTATION

ALGORITHM

Author: REILLY, CHARLES A. ET.AL.

Source: IEEE TRANSCSRIPT ON COMMUNICATIONS

Date: 08/01/90 Vol.: 38 No.: 8 Index#: 00714-00

Title: MOTOROLA SETS SATELLITE PHONE LINK

Author: ROSE, ROBERT L. ET.AL.

Source: WALL STREET JOURNAL

Date: 06/26/90 Vol.: No.: Index#: 00715-00

Title: A NEW SATELLITE SYSTEM FOR HAND MOBILE COMMUNICATIONS AT

EHF

Author: RUGGIERI, M. ET.AL.

Source: 41ST CONGRESS OF THE INTERNATIONAL ASTRONAUTICAL

FEDERATION

Date: 10/06/90 Vol.: No.: IAF-90- Index#: 00716-00

Title: APPLICATION OF ELECTRON BEAMS IN SPACE FOR ENERGY STORAGE

AND OPTICAL GENERATION

Author: SALTER, R. M.

Source: AIAA CONFERENCE PAPER

Date: 01/01/78 Vol.: No.: Index#: 00717-00

Title: THE PROBLEM OF HIGH ORBIT INCLINATION SATELLITES

Author: SCANIO, JR., THOMAS J.

Source: SATELLITE COMMUNICATIONS Date: 04/01/90 Vol.: No.: Index#: 00718-00

Title: ORBITAL EFFICIENCY THROUGH SATELLITE DIGITAL SWITCHING

Author: SCARCELLA, T.; AND ABBOT, R.V. Source: IEEE COMMUNICAITONS MAGAZINE Date: 05/01/83 Vol.: 21 No.: Index#: 00722-00

Title: REDUCED DOMESTIC SATELLITE ORBITAL SPACING AT 4/G GHZ

Author: SHARP, G. L.

Source: OFFICE OF SCIENCE AND TECHNOLOGY NTIS HC A08/MF

Date: 05/01/83 Vol.: No.: Index#: 00719-00

Title: CONTROLLED TETHER EXTENDS SATELLITES ORBITAL RANGE

Author: WIGOTSKY, V.

Source: AEROSPACE AMERICA

Date: 06/01/84 Vol.: 22 No.: Index#: 00723-00

Title: GEOSTATIONARY ORBITAL CROWDING: AN ANALYSIS OF PROBLEMS

AND SOLUTIONS

Author: WILKISON, JR., ROBERT M.

Source: THESIS (MS) ITP - UNIVERSITY OF COLORADO/BOULDER

Date: 01/01/90 Vol.: No.: Index#: 00724-00

Network Configuration

Title: IEEE COLLOQUIUM ON THE ROLE OF SATELLITES IN TOMORROWS FIBER-

OPTIC WORLD

Author:

Source: IEEE CONFERENCE MAY 88

Date: 01/01/88 Vol.: No.: Index#: 00049-00

Title: UTILITY POLISHES PRIVATE NETWORK

Author:

Source: COMMUNICATIONS NEWS

Date: 01/01/90 Vol.: 27 No.: 1 Index#: 00870-00

Title: VARIOUS PAPERS ON GLOBAL TELECOMMUNICATIONS

Author:

Source: GLOBECOM 85 DEC. 1985

Date: 01/01/85 Vol.: No.: Index#: 00871-00

Title: COLLECTION OF ARTICLES

Author:

Source: NETWORK WORLD

Date: 09/10/90 Vol.: No.: Index#: 00872-00

Title: COLLECTION OF NETWORKING ARTICLES

Author:

Source: IEEE NETWORK

Date: 07/01/89 Vol.: 3 No.: 4 Index#: 00873-00

Title: COLLECTION OF NETWORKING ARTICLES (11)

Author:

Source: AT&T TECHNICAL JOURNAL

Date: 11/01/88 Vol.: 67 No.: 6 Index#: 00874-00

Title: SATELLITE AND TERRESTRIAL NETWORKS FOR MULTI-MEDIA

COMMUNICATIONS

Author: ADAMS, C. J.

Source: IN ESA, OLYMPUS UTILIZATION CONFERENCE (NTIS)

Date: 05/01/89 Vol.: No.: Index#: 00801-00

Title: SATELLITE AND TERRESTRIAL NETWORKS FOR MULTI-MEDIA

COMMUNICATION

Author: ADAMS, C. J.

Source: SCIENCE AND ENGINEERING RESEARCH COUNCIL/OLYMPUS

UTILIZATION CONFERENCE

Date: 05/01/89 Vol.: No.: Index#: 00802-00

Title: HOW WILL ISDN AFFECT NETWORK MANAGEMANT?

Author: BAKER, H. C.

Source: BUSINESS COMMUNICATIONS REVIEW Date: 09/01/89 Vol.: 19 No.: 9 Index#: 00803-00

Title: ROUTE OPTIMISATION, NETWORK GUIDANCE AND SYSTEM

MINIMISATION AS...

Author: BASSLER, R.

Source: NACHRICHTEN TECHNIK ELEKTRONIK Date: 01/01/86 Vol.: 36 No.: 12 Index#: 00804-00

Title: GORDON BELL CALLS FOR A US RESEARCH NETWORK

Author: BELL, GORDON C. Source: IEEE SPECTRUM

Date: 02/01/88 Vol.: No.: Index#: 00805-00

Title: THE IMPACT OF TECHNOLOGY TRENDS ON THE TELECOMMUNICATION

NETWORK Author: BIRING, D. S.

Source: NORTHCOM 87 CONFERENCE SEPT. 1987

Date: 01/01/87 Vol.: No.: Index#: 00806-00

Title: A PERSPECTIVE ON FUTURE LARGE SCALE TELELCOMMUNICATIONS

ARCHITECTURES SUPPORTING BISDN SERVICES

Author: BLOOMFIELD, R. S. ET.AL.

Source: BROADBAND FOC/LAN EXPOSITION OCT. 1989

Date: 01/01/89 Vol.: No.: Index#: 00204-00

Title: COMMON CHANNEL SIGNALING: THE NEXUS OF AN ADVANCED

COMMUNICATION NETWORK Author: BOYLES, STEPHANIE M. ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00807-00

Title: POISSON - PROCEDURE FOR THE OPTIMAL INSERTION OF A SWITCHING

SATELLITE IN AN OPERATIVE NETWORK

Author: BUTTO, MILENA Source: ALTA FREQUENZA

Date: 02/01/88 Vol.: 57 No.: 12 Index#: 00808-00

Title: ON-BOARD PROCESSING SATELLITES NETWORK ARCHITECTURE AND

CONTROL STUDY

Author: CAMPANELLA, S.J.; PONTANO, B; CHALMERS, H.

Source: COMMUNICATIONS SATELLITE CORPORATION, CLARKSBURG, MD; NTIS

PC A02/MF A01

Date: 06/01/87 Vol.: No.: Index#: 00810-00

Title: SUBJECTIVE EVALUATION OF DEDICATED MULTIPLE-HOP SATELLITE COMMUNICATION FOR GOVERNMENT AND MILITARY USERS

Author: CAMPANOLLA, S. J.; ONUFRY M.; SUYDERHOUD, H. G.

Source: IEEE TRANSACTIONS ON COMMUNICATION TECHNOLOGY

Date: 10/01/70 Vol.: COM-18 No.: Index#: 00809-00

Title: SURVIVABILITY: MORE THAN REDUNDANT LINES AND HARDWARE

(NETWORK MANAGEMENT)

Author: CAMPBELL, R. P.

Source: TELECOMMUNICATIONS PRODUCTS PLUS TECHNOLOGY

Date: 12/01/86 Vol.: 4 No.: 12 Index#: 00811-00

Title: ISDN STATUS AND OPPORTUNITIES FOR SATELLITE SYSTEMS

Author: CASAS, J. M. ET.AL.

Source: NASA REPORT NO. ESA-STR-220 Date: 01/01/87 Vol.: No.: Index#: 00105-00

Title: NETWORK ARCHITECTURES FOR SATELLITE ISDN

Author: CHITRE D. M. ET.AL.

Source: AIAA INTERNATIONAL COMMUNICATIONS SATELLITE SYSTEMS

CONFERENCE MARCH 1990

Date: 01/01/90 Vol.: No.: Index#: 00813-00

Title: DESIGN AND ANALYSIS OF VERY HIGH-SPEED NETWORK ARCHITECTURE

Author: CHLAMTAC, I.: GANZ, A.

Source: IEEE TRANSACTIONS ON COMMUNICATIONS

Date: 03/01/88 Vol.: 36 No.: 3 Index#: 00812-00

Title: EUROPEAN COMMUNICATIONS SATELLITE: INTEGRATION IN THE

EUROPEAN NETWORK AND INTERFACING WITH THE ITALIAN PUBLIC

TELEPHONE NETWORK

Author: DE ROSA, D. ET.AL.

Source: NOTE RECENSIONI E NOTIZIE

Date: 01/01/88 Vol.: 37 No.: 1-2 Index#: 00815-00

Title: SPACE BASED SWITCHING SYSTEMS

Author: DEAVES, C.

Source: COMMUNICATIONS ENGINEERING INTERNATIONAL

Date: 01/01/89 Vol.: 10 No.: 10 Index#: 00814-00

Title: THE BIG QUESTION IS, WHAT KIND OF AN IMPACT WILL ISDN HAVE ON

YOUR CORPORATE NETWORK?

Author: DEWITT, RUSSELL

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00108-01

Title: SITE DIVERSITY: A POWERFUL ANTIFADING TECHNIQUE FOR SATELLITE

COMMUNICATIONS IN 20/30 GHZ BAND

Author: DI ZENOBIO, D.; LOMBARDI, P.; MIGLIORINI, P.; AND RUSSO, E.

Source: OLYMPUS UTILISATION CONFERENCE PROCEEDINGS; ESA, PARIS,

FRANCE

Date: 01/01/89 Vol.: No.: Index#: 00816-00

Title: COMBINING SATELLITE AND FIBEROPTIC TECHNOLOGIES IMPROVES

INTERNATIONAL SERVICES AND COSTS

Author: EDWARDS, M.

Source: COMMUNICATIONS NEWS

Date: 06/01/87 Vol.: 24 No.: 6 Index#: 00012-00

Title: COMPETITORS MATCHING AT&T IN THE MIGRATION TO ISDN

Author: EDWARDS, MORRIS

Source: COMMUNICATIONS NEWS

Date: 05/01/86 Vol.: 73 No.: 5 Index#: 00113-00

Title: DATA NETWORKS IN THE 90'S

Author: FORSON, HENRY

Source: COMMUNICATION NEWS

Date: 12/01/88 Vol.: 25 No.: 12 Index#: 00115-00

Title: PROPOSAL AND IMPLEMENTATION OF OSI ORIENTED APPLICATION

INTERFACE FOR ISDN

Author: FURUYA, N. ET.AL.

Source: KDD TECHNICAL JOURNAL

Date: 07/01/89 Vol.: No.: 141 Index#: 00117-00

Title: NETWORKS, SIGNALING AND SWITCHING FOR POST-DIVESTITURE AND

THE ISDN Author: GLEN, D.V.

Source: NTIA REPORT NUMBER NTIA/86-191;NCS-TIB-86-2

Date: 02/01/86 Vol.: No.: Index#: 00817-00

Title: COMMON CHANNEL SIGNALING INTERFACE FOR LOCAL EXCHANGE

CARRIER TO INTEREXCHANGE CARRIER INTERCONNECTION

Author: GOLDBERG, RICHARD; AND SHRADER, DAVID

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00818-00

Title: MOTOROLA BIDS TO RING THE WORLD

Author: GREEN-ARMATAGE, J. Source: COMPUTER WEEKLY

Date: 07/05/90 Vol.: No.: 1221 Index#: 00819-00

Title: A CASE FOR PRIVATE ISDN

Author: GUNN, HOWARD

Source: TELECOMMUNICATIONS

Date: 05/01/90 Vol.: 24 No.: 5 Index#: 00118-00

Title: USERS SHOULD BE DOING THEIR ADVANCE PLANNING TO TAKE

ADVANTAGE OF THE ISDN TECHNOLOGIES

Author: HAHN, JAMES

Source: COMMUNICATIONS NEWS

Date: 01/01/87 Vol.: 24 No.: 1 Index#: 00118-50

Title: SYNCHRONIZATION TECHNIQUES FOR DIGITAL NETWORKS

Author: HARTMANN, H.L.; STEINER, E.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 06/01/86 Vol.: SAC-4 No.: 4 Index#: 00820-00

Title: SATELLITE AND/OR GROUND BASED NETWORKS: USER CONCERNS

Author: HINE, M.G.N.

Source: IN ESA, OLYMPUS UTILIZATION CONFERENCE P167-171

Date: 05/01/89 Vol.: No.: Index#: 00821-00

Title: PHOTONIC SWITCHING FABRICS

Author: HINTON, H. SCOTT

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00822-00

Title: AN ATM SELF-ROUTING SWITCH ARCHITECTURE

Author: HITOSHI, IMAGAWA ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/88 Vol.: 1 No.: 4 Index#: 00239-00

Title: 30/20 GHZ BAND SCPC SATELLITE COMMUNICATION USING SMALL

EARCH STATIONS

Author: INOVE T.; NAKAJIWA, S.; MASAMURA, T.; KAITSUKA, T.; SATCH, R.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 09/01/83 Vol.: SAC-1 No.: 4 Index#: 00823-00

Title: T3 NETS REQUIRE STRONG, FLEXIBLE MANAGEMENT

Author: JAKUBSON, J. E. ET.AL.

Source: TPT

Date: 02/01/89 Vol.: 7 No.: 2 Index#: 00824-00

Title: ISDN OVER THE PACIFIC Author: KAWASAKI, TATSUO Source: TELECOMMUNICATIONS

Date: 08/01/90 Vol.: 24 No.: 8 Index#: 00122-00

Title: AN IXC'S LOOK AT GLOBAL ISDN

Author: KERO, T. Source: TELEPHONY

Date: 04/23/90 Vol.: 218 No.: 17 Index#: 00242-00

Title: CURRENT ROLE AND FUTURE EVOLUTION OF THE ISDN SIGNALING

SYSTEM IN NTT'S NETWORK Author: KITAMI, KENICHI ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00826-00

Title: AN OVERVIEW OF SATELLITE TRANSMISSION ISSUES AND THE ISDN

Author: KNIGHT, IVOR N. ET.AL. Source: ICC 86 CONFERENCE JUNE 86

Date: 01/01/86 Vol.: No.: Index#: 00024-00

Title: DESIGN OF A DEMAND-ASSIGNMENT SATELLITE-SWITCHED SPACE DIVISION MULTIPLE ACCESS COMMUNICATIONS NETWORK

Author: KO, K. T. ET.AL.

Source: ATR/AUSTRALIAN TELECOMMUNICATION RESEARCH

Date: 01/01/82 Vol.: 16 No.: 2 Index#: 00825-00

Title: COMPUTER MODELLING OF ROUTING PATTERN WITHIN NETWORK

CONFIGURATION

Author: KOVAL, D.O. AND HUNGKWENG, KU

Source: PROCEEDINGS OF THE IASTED INTERNATIONAL SYMPOSIUM ON

MODELLING AND SIMULATION

Date: 06/01/85 Vol.: No.: Index#: 00611-00

Title: VOCODERS IN MOBILE SATELLITE COMMUNICATIONS

Author: KRIEDTE, W.; CANAVESIO, F.; DAL DEGAN, N.; PIRANI, G. ET.AL.

Source: ESA IOURNAL

Date: 01/01/84 Vol.: 8 No.: 3 Index#: 00827-00

Title: COMPUTER AIDED SYNTHESIS OF COMMUNICATION SATELLITE SYSTEMS

Author: KRIEGL, W.; LOEHLE H.

Source: SPACE COMMUNICATION AND BROADCASTING

Date: 06/01/85 Vol.: 3 No.: Index#: 00828-00

Title: THE ISDN CHALLENGE IS MANAGEABLE IF THE USER IS ARMED WITH THE

RIGHT NETWORK KNOWLEDGE

Author: LANGFORD, GREG

Source: COMMUNICATIONS NEWS

Date: 01/01/88 Vol.: 25 No.: 1 Index#: 00124-00

Title: INTEGRATION OF A TERRESTRIAL COMMUNICATION NETWORK INTO A

COMMUNICATION SATELLITE SYSTEM

Author: LOEHLE, H.

Source: DORNIER-WERKE GIMIBIH

Date: 07/01/80 Vol.: No.: Index#: 00829-00

Title: INVESTIGATION OF THE INTEGRATION OF A TERRESTRIAL

COMMUNICATION NETWORK WITHIN A SATELLITE SYSTEM

Author: LOEHLE, H.

Source: AIAA TECHNICAL LIBRARY

Date: 07/01/80 Vol.: No.: Index#: 00830-00

Title: BROADCASTERS URGED TO TRY FIBER OPTICS AS ALTERNATIVE TO

SATELLITE TRANSMISSION

Author: LOPEZ, JULIE A.

Source: WALL STREET JOURNAL

Date: 02/27/90 Vol.: No.: Index#: 00831-00

Title: SIGNALING SYSTEM NO. 7 IN CORPORATE NETWORKS

Author: MARR, FRANCIS K.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 07/01/90 Vol.: 28 No.: 7 Index#: 00832-00

Title: INTERNETWORKING LANS VIA THE ISDN BEARER SERVICES

Author: MARSDEN, P. N.

Source: IEEE COLLOQUIUM ON INTERCONNECTION OF LANS MAY 90

Date: 01/01/90 Vol.: No.: Index#: 00130-00

Title: MULTI-SERVICE DEMAND ASSIGNMENT SYSTEM AIMING AT ISDN

Author: MATSUO, K. ET.AL.

Source: ICDSC-7 CONFERENCE MAY 86 Date: 01/01/86 Vol.: No.: Index#: 00029-00 Title: NETWORK INFRASTRUCTURE: PAY NOW OR PAY LATER

Author: MCQUILLAN, JOHN

Source: BUSINESS COMMUNICATIONS REVIEW

Date: / / Vol.: No.: Index#: 00833-00

Title: THE USE OF SATELLITES IN MEETING THE TELECOMMUNICATION NEEDS

OF DEVELOPING NATIONS

Author: MITCHELL, W. C.

Source: STANFORD UNIVERSITY PH.D DISSERTATION

Date: 01/01/75 Vol.: No.: Index#: 00934-00

Title: A SWITCH IN THE SKY

Author: MONTGOMERY, ROB R. ET.AL.

Source: CELLULAR BUSINESS

Date: 04/01/89 Vol.: 6 No.: 4 Index#: 00835-00

Title: IMPACT OF EMERGING SWITCHING-TRANSMISSION COST TRADEOFFS ON

FUTURE TELECOMMUNICATIONS NETWORK ARCHITECTURES

Author: MOONDRA, S. L.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 10/01/89 Vol.: 7 No.: 8 Index#: 00836-00

Title: VSAT NETWORKING CONCEPTS AND NEW APPLICATIONS DEVELOPMENT

Author: MURTHY, K.M. SUNDARA; GORDON, KENNETH G.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 05/01/89 Vol.: 27 No.: Index#: 00837-00

Title: A KA-BAND CO-OPERATIVE DATA EXPERIEMENT FOR OLYMPUS

Author: MWANAKATWE, M. ET.AL.

Source: IEE COLLOQUIUM ON EXPERIEMENTS USING THE OLYMPUS SATELLITE

Date: 10/27/87 Vol.: No.: 81 Index#: 00838-00

Title: FUTURE ADVANCED SATELLITE COMMUNICATIONS SYSTEMS WITH

INTEGRATED TRANPONDERS

Author: NAKAMURA, M. ET.AL.

Source: COMMUNICATIONS SATELLITE SYSTEMS CONFERENCE 9TH

Date: 01/01/82 Vol.: No.: Index#: 00839-00

Title: ISDN IS COMING, SO NOW'S THE TIME TO PREPARE FOR REALITY BY

BECOMING A BANDWIDTH MANAGER

Author: NEVERS, DAVID

Source: COMMUNICATIONS NEWS

Date: 01/01/88 Vol.: 25 No.: 1 Index#: 00137-00

Title: DESIGN OF AN INTERNATIONAL BUSINESS SATELLITE COMMUNICAITONS NETWORK...

Author: NOHARA, M.; TAKEUCHI, Y.; YAMAZAKI, T.; TAKAHATA, F.; HIRATA, Y.

Source: TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS AND

COMMUNICATION ENGINEERS OF JAPAN

Date: / / Vol.: J69B No.: 11 Index#: 00840-00

Title: BITNET NETWORK: AN AID TO RESEARCH

Author: NTIS TECH NOTE

Source: NATIONAL INSTITUTES OF HEALTH, BETHESDA, MD

Date: / / Vol.: No.: Index#: 00841-00

Title: PLUGGING INTO THE SWITCHBOARD IN THE SKY

Author: PAYNE, M.

Source: NEW SCIENTIST

Date: 04/01/75 Vol.: 66 No.: Index#: 00841-01

Title: SYSTEM CONSIDERATIONS IN INTELSAT DOMESTIC NETWORK

Author: PEVILLAN, L. AND EFTEKHAVI, R.

Source: NTC '80; NATIONAL TELECOMMUNICATIONS CONFERENCE

Date: 12/04/80 Vol.: 2 No.: Index#: 00711-00

Title: NETWORK RELIABILITY AND AVAILABILITY ANALYSIS TO MINIMIZE DOWNTIME COSTS FOR COMMUNICATIONS NETWORKS

Author: PULAT, S. ET.AL.

Source: MICROELECTRONICS AND RELIABLITY Date: 01/01/89 Vol.: 29 No.: 1 Index#: 00842-00

Title: ATM SWITCHES - BASIC ARCHITECTURES AND THEIR PERFORMANCE

Author: RATHGEB, E. P. ET.AL.

Source: INTERNATIONAL IOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

Date: 10/01/89 Vol.: 2 No.: 4 Index#: 00263-00

Title: COEXISTENCE OF FREQUENCY HOPPING AND FM: AN INTERLEAVING OVERLAY APPROACH

Author: RAZ, GHULAM H.

Source: GLOBECOM '87 - GLOBAL TLELCOMMUNICATIONS CONFERENCE

Date: 01/01/87 Vol.: 1 No.: Index#: 00616-00

Title: DOMSAT DOWN UNDER

Author: REINECKE, IAN Source: TELEPHONY

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Title: INVESTIGATIONS OF INTERLIBRARY RESOURCE-SHARING NETWORKS

Author: REINTJES, J. FRANCIS

Source: NATIONAL SCIENCE FOUNDATION REPORT NO. LIDS-R-1176

Date: 03/01/82 Vol.: No.: Index#: 00844-00

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Author: REIS, J.

Source: INFORMATION WEEK

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Title: SELF-ORGANIZING COMMUNICATION NETWORKS

Author: ROBERTAZZI, T.G.; SARACHIK, P.E. Source: IEEE COMMUNICATIONS MAGAZINE Date: 01/01/86 Vol.: 24 No.: 1 Index#: 00846-00

Title: NEW RADIO NETWORKS FOR TACTICAL COMMUNICATIONS

Author: RUSTAD, JOHN ERIK ET.AL.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Date: 06/01/90 Vol.: 8 No.: 5 Index#: 00847-00

Title: INTEGRATION OF SATELLITE CIRCUITS IN THE TERRESTRIAL TELECOMMUNICATIONS NETWORK

Author: SATAGOPAN, S.

Source: CNES SYMPHONIC SYMPOSIUM Date: 01/01/80 Vol.: No.: Index#: 00848-00

Title: NETWORK DSIGN ISSUES FOR THE 1990'S

Author: SCHAEVITZ, A. Y.

Source: BUSINESS COMMUNICATIONS REVIEW Date: 11/01/88 Vol.: 18 No.: 6 Index#: 00849-00

Title: THE GERMAN TELECOMMUNICATIONS SATELLITE SYSTEM DFS

KOPERNIKES Author: SCHUNELLER, O.

Source: COMMUNICATION SATELLITE SYSTEMS CONFERENCE 11TH

Date: 01/01/86 Vol.: No.: Index#: 00852-00

Title: RELIABILITY ALLOCATION METHODOLOGY FOR LARGE-SCALE COMMUNICATIONS NETWORKS

Author: SELMAN, V.; CHAO, K.; MOWAFI, O.

Source: PROCEEDINGS OF THE 1986 SUMMER COMPUTER SIMULATION

CONFERENCE

Date: 01/01/86 Vol.: No.: Index#: 00850-00

Title: CASADE BENES REARRANGEABLE MULTICONNECTION NONBLOCKING SWITCHING NETWORKS

Author: SEZAKI, K.; TANAKA, Y.; AKIYAMA, M.

Source: TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION

AND COMMUNICATION ENGINEERS

Date: / / Vol.: J71B No.: 8 Index#: 00851-00

Title: COMPARISON OF SATELLITE AND FIBER OPTICS TECHNOLOGIES FOR INTERCITY AND INTERCONTINENTAL COMMUNICATION

Author: SHARIFI, HOSSEIN M.

Source: ICC '86 PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON

COMMUNICATIONS, TORONTO

Date: 01/01/86 Vol.: No.: 2 Index#: 00853-00

Title: A CENTRALIZED MULTIPLE SATELLITE NETWORK FOR REAL TIME GLOBAL SPACE, LAND AND MOBILE COMMUNICATION

Author: SHARIFI, M. HOSSEIN AND AVOZULLAH, MAHAMMED

Source: MILCOM '87 IEEE MILITARY COMMUNICATIONS CONFERENCE

Date: 01/01/87 Vol.: 3 No.: Index#: 00854-00

Title: A MULTIFUNCTION SATELLITE NETWORK FOR TAIWAN

Author: SIMHA, SESH AND ONG, CHONG Source: SATELLITE COMMUNICATIONS

Date: 10/01/90 Vol.: 14 No.: 10 Index#: 00855-00

Title: POLICE DEPT.'S BRI LINES TO SUPPORT VOICE, DATA, IMAGES

Author: SMITH, TOM

Source: NETWORK WORLD

Date: 07/23/90 Vol.: 7 No.: 30 Index#: 00143-00

Title: FUTURE FIBER ACCESS NEEDS AND SYSTEMS

Author: SNELLING, RICHARD K. ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 04/01/90 Vol.: 28 No.: 4 Index#: 00856-00

Title: A ROUTING ARCHITECTURE FOR VERY LARGE NETWORKS UNDERGOING RAPID RECONFIGURATION

Author: SNYDER, J. M.

Source: COMPUTER COMMUNICATION REVIEW Date: 09/01/89 Vol.: 19 No.: 4 Index#: 00857-00

Title: SATELLITE COMMUNICATIONS: A PRACTICAL NETWORK ALTERNATIVE

FOR TELECOM USERS Author: SOBCZAK, JAMES J.

Source: TELECOMMUNICATIONS PRODUCTS AND TECHNOLOGY

Date: 11/01/85 Vol.: 3 No.: 11 Index#: 00858-00

Title: SOUTHWESTERN BELL TELEPHONE'S ISDN EXPERIENCE

Author: STEPHENSON, RICHARD W.

Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00145-20

Title: ISDN INTERNET ENVIRONMENT AND STANDARDS ANALYSIS

Author: SU, J. ET.AL.

Source: GEORGIA INSTITUTE OF TECHNOLOGY REPORT NO. ASQBG-C-89-022

Date: 08/01/88 Vol.: No.: Index#: 00149-00

Title: OPTIMUM DESIGN ALGORITHMS FOR TERRESTRIAL/SATELLITE COMMUNICATION NETWORK SYSTEMS

Author: SUGANO, M. ET.AL.

Source: TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION

AND COMMUNICATIONS ENGINEERS
Date: 02/01/87 Vol.: J70A No.: 2 Index#: 00859-00

Title: FDDI: A LIGHTWAVE DATA NETWORK STANDARD AND ITS

APPLICATIONS Author: SUMNER, ERIC E. Source: IEEE NETWORK

Date: 09/01/89 Vol.: 3 No.: 5 Index#: 00860-00

Title: SATELLITE COMMUNICATIONS SYSTEMS AND EARTH STATIONS

TECHNOLOGIES

Author: SUZUKI, R.; SAGA, R.; NAKANISH, M.

Source: JOURNAL OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND

COMMUNICATION ENGINEERS

Date: 11/01/89 Vol.: 72 No.: 11 Index#: 00861-00

Title: SUCCESS OUT WEST Author: TANZILLO, KEVIN

Source: COMMUNICATIONS NEWS

Date: 01/01/89 Vol.: 26 No.: 1 Index#: 00150-00

Title: VSAT SYSTEM IV. SATELLITE NETWORK CONTROL PROCESSOR

Author: TESHIGAWARA, Y. ET.AL.

Source: NEC RESEARCH AND DEVELOPMENT Date: 04/01/88 Vol.: No.: 89 Index#: 00862-00

Title: THE ITALSAT PEROPERATIONAL PROGRAMME

Author: TIRRO, S.

Source: INTERNATIONAL CONFERENCE ON DIGITAL SATELLITE

COMMUNICATION 6TH

Date: 01/01/83 Vol.: No.: Index#: 00863-00

Title: COMBINING FDM AND CDM IN A HIGH CAPACITY OPTICAL NETWORK

Author: VANNUCCI, GIOVANNI

Source: IEEE NETWORK

Date: 03/01/89 Vol.: 3 No.: 2 Index#: 00864-00

Title: DAVID SYSTEMS GETS \$7M INVESTMENT FOR ISDN R AND D

Author: WALLACE, BOB Source: NETWORK WORLD

Date: 01/30/89 Vol.: 6 No.: 4 Index#: 00152-00

Title: NICE GUYS REFUSE TO FINISH LAST IN ISDN

Author: WALLACE, BOB Source: NETWORK WORLD

Date: 01/30/89 Vol.: 6 No.: 4 Index#: 00153-00

Title: TACTICAL ISDN TECHNOLOGY PROGRAM

Author: WEINSTEIN, C. J. ET.AL.

Source: MIT FINAL REPORT SEPT. 89 NO. ESD-TR-90-010

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Author: WULLEMAN, R. ET.AL.

Source: INTERNATIONAL JOURNAL OF DIGITAL AND ANALOG CABLED SYSTEMS

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AND PUBLIC CORPORATIONS Author: YAMAMOTO, M.; ET.AL.

Source: JOURNAL OF THE INSTITUTE OF ELECTRONIC, INFORMATION AND

COMMUNICATION ENGINEERS

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Title: FUTURE PROSPECTS OF VISUAL COMMUNICATIONS NETWORK

Author: YASUDA, H.

Source: JOURNAL OF THE INSTITUTE OF TELEVISION ENGINEERS OF JAPAN

Date: 06/01/88 Vol.: 47 No.: 6 Index#: 00867-00

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Author: YASUI, T.

Source: CONFERENCE: 33RD INTERNATIONAL CONGRESS ON

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Author: YEH, Y.S.; REUDINK, D.O.

Source: INTERNATIONAL CONFERENCE ON DIGITAL SATELLITE

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Author:

Source: IEEE CONFERENCE MAY 88

Date: 01/01/88 Vol.: No.: Index#: 00049-00

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Author:

Source: GLOBECOM 85 DEC. 1985

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Author:

Source: COMMUNICATIONS NEWS

Date: 03/01/88 Vol.: 25 No.: 3 Index#: 00908-03

Title: DOWNLINK PERFORMANCE DEGRADATIONS CAUSED BY AN ON-BOARD

BASEBAND SWITCHING MATRIX

Author: AMADESI, P. ET.AL.

Source: CSLET RAPPORTI TECNICI (ITALY)

Date: 08/01/82 Vol.: 10 No.: 4 Index#: 00928-00

Title: OPTICAL TECHNOLOGIES FOR SIGNAL PROCESSING IN SATELLITE

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Author: ANANASSO, FULVIO ET.AL.

Source: IEEE COMMUNICATION MAGAZINE Date: 02/01/90 Vol.: 28 No.: 2 Index#: 00901-00

Title: INTEGRRATION AND TESTING OF AN SS-TDMA 120 MBIT/S

REGONERATIVE REPEATER...AT K-BAND

Author: ANANASSO, FULVIO; DELLACCINI, SERGIO

Source: IEE PROCEEDINGS, PART F-COMMUNICATIONS, RADAR AND SIGNAL

PROC.

Date: 08/01/87 Vol.: No.: 5 Index#: 00900-00

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Author: BAGWELL, IAMES

Source: PROCEEDINGS OF THE IEEE

Date: 07/01/90 Vol.: 78 No.: 7 Index#: 00906-03

Title: SELF-ADAPTIVE ECHO CANCELLATION FOR TELEPHONY

Author: BASTANI, M. H. Source: NASA ENST-84 E013

Date: 07/04/84 Vol.: No.: Index#: 00929-00

Title: MEASUREMENTS ON A 30 CHANNEL PCM SYSTEM

Author: BATES, R.J.S.

Source: CAMBRIDGE UNIVERSITY (UK) CUED/B-ELECT/TR-53-1978

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Title: SATELLITE SYSTEMS AVAILABILITY AND EFFECTIVENESS

Author: BEHMANN, F.F. ET.AL.

Source: ANNUAL RELIABILITY AND MAINTAINABILITY SYMPOSIUM (AIAA)

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Titlele: APPLICATIONS '90: TELECOMMUNICATIONS

Author: BELL, TRUDY E. Source: IEEE SPECTRUM

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Title: DIFFRACTION BASED THEROETICAL MODEL FOR PREDICTION OF UHF

PATH LOSS IN CITIES Author: BERTONI, H. C. ET.AL.

Source: NASA GRAI 8815;STAR2612 (POLYTCH. INST. NY)

Date: 11/01/87 Vol.: No.: Index#: 00932-00

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Author: BIANCHI, F. ET.AL.

Source: NOTE RECENSIONI E NOTIZLE (ITALY) Date: 10/01/81 Vol.: 30 No.: 4 Index#: 00932-10

Title: HIGH DATA RATE ATMOSPHERIC AND SPACE COMMUNICATION

Author: BITTEL, R.H. ET.AL.

Source: PROCEEDINGS OF SPIE (INTL. SOC. OF OPT. ENG.)

Date: 09/08/88 Vol.: 996 No.: Index#: 00903-00

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Author: BOUDREAW, GARY D. ET.AL.

Source: IEEE JOURNAL ON SELECTED AREAS ON COMMUNICATIONS

Date: 05/01/90 Vol.: 8 No.: 4 Index#: 00909-03

Title: NASA'S ATDRSS SYSTEM FOR THE YEARS 2000 AND BEYOND

Author: BRANDEL, DANIEL C. ET.AL. Source: PROCEEDINGS OF THE IEEE

Date: 07/01/90 Vol.: 78 No.: 7 Index#: 00906-02

Title: TROUBLESHOOTING YOUR SATELLITE NETWORK

Author: BROSS, DAVID Source: VIA SATELLITE

Date: 03/01/90 Vol.: V No.: 3 Index#: 00903-01

Title: INTERNATIONAL SATELLITE COMMUNICATIONS IN THE PACIFIC

DEVELOPMENT AND FUTURE PROSPECTS

Author: BURCH, DEAN

Source: PTC 1990 CONFERENCE

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Title: COMMUNICATIONS SATELLITES: ORBITING IN THE '90S

Author: CAMPANELL, S.J. Source: IEEE SPECTRUM

Date: 08/01/90 Vol.: No.: Index#: 00919-01

Title: COMPANDED SINGLE SIDEBAND (CSSB) AM/FDMA PERFORMANCE

Author: CAMPANELLA, S.J.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS

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Author: CAMPANELLA, S.J. ET.AL. Source: PROCEEDINGS OF THE IEEE

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SATELLITE SYSTEM PERFORMANCE

Author: CASS, ROBERT D.

Source: NTIA

Date: / / Vol.: No.: Index#: 00904-00

Title: SIDESTEPPING INTERFACE Author: CORONDAN, WILLIAM

Source: SATELLITE COMMUNICATIONS
Date: 04/01/87 Vol.: No.: Index#: 00905-00

Title: SITE DIVERSTIY: A POWERFUL ANTIFADING TECHNIQUE FOR SATELLITE

COMMUNICATIONS IN THE 20/30 GHZ BANDS

Author: DIZENBIO, D.

Source: FONDAZIONE UGO BORDON: (ITALY)/NASA

Date: / / Vol.: No.: Index#: 00935-00

Title: SCANNING THE ISSOE: SATELLITE COMMUNICATIONS

Author: DURRANI, SAIJAD H. ET.AL. Source: PROCEEDINGS OF THE IEEE

Date: 07/01/90 Vol.: 78 No.: 7 Index#: 00906-00

Title: IMPACT OF OTS PROPAGATION RESULTS ON THE ECS SYSTEM

Author: DUTRONC, J. ET.AL.

Source: ESA OTS: 3RD YEAR IN ORBIT (CONFERENCE)

Date: 08/01/81 Vol.: No.: Index#: 00936-00

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INTERNATIONAL SERVICES AND COSTS

Author: EDWARDS, M.

Source: COMMUNICATIONS NEWS

Date: 06/01/87 Vol.: 24 No.: 6 Index#: 00012-00

Title: DIGITAL RECEIVER STRUCTURES AND METHODS FOR THE

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DATA TRANSMISSION VIA..

Author: EILENBERG, G.

Source: STUTTGART UNIVERSITY (GERMANY); NASA REPORT NO. GN-87-90429

Date: 01/01/86 Vol.: No.: Index#: 00937-00

Title: SATELLITE DIGITAL COMMUNICATIONS SYSTEMS

Author: ENDO, K. ET.AL.

Source: FUJITSU

Date: 01/01/87 Vol.: 38 No.: 1 Index#: 00907-00

Title: MEASURING PERFORMANCE OF COMMUNICATION SATELLITE SYSTEMS

Author: FEHRENBACH, H.

Source: TELECOMMUNICATIONS

Date: 04/01/81 Vol.: 15 No.: 4 Index#: 00938-00

Title: FM SPECTRAL MODELING AND FDM/FM SIMULATION PROGRAMS

Author: FILIPPI, C. A.

Source: MYOSTR[PTY-83-134

Date: 10/01/83 Vol.: No.: Index#: 00939-00

Title: ONBOARD DEMAND SCHEDULING OF A MULTIBEAM SS/TDMA SATELLITE WITH INTEGRATED CIRCUIT AND PACKET SWITCHING

Author: FRANK, A. J.

Source: COLUMBIA UNIVERSITY NEW YORK (THESIS)

Date: 01/01/84 Vol.: No.: Index#: 00940-00

Title: VSAT TECHNOLOGY FOR TODAY AND FOR THE FUTURE PART 6

Author: GARNER, WILLIAM

Source: COMMUNICATIONS NEWS

Date: 03/01/88 Vol.: 75 No.: 3 Index#: 00908-00

Title: INCREASED CAPACITY USING CDMA FOR MOBILE SATELLITE COMMUNICATIONS

Author: GILHOUSE, KLEIN S. ET.AL.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATION

Date: 05/01/90 Vol.: 8 No.: 4 Index#: 00909-00

Title: SUBMARINE CABLE VIS-A-VIS SATELLITE SYSTEMS: OPERATIONAL AND ECONOMIC ASPECTS

Author: GRENIER, J.

Source: CONFERENCE: SUBMARINE TELECOMMUNICATION SYSTEMS; IEEE

CONFERNCE

Date: 01/01/80 Vol.: No.: Index#: 00910-00

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Author: HARROLD, JOSEPH L. ET.AL. Source: PROCEEDINGS OF THE IEEE

Date: 07/01/90 Vol.: 78 No.: 7 Index#: 00906-04

Title: PROPAGATION ASPECTS OF ISDN SATELLITE LINKS ABOVE 10 GHZ

Author: HENDRICKX, M. P. Source: ICAP 89 CONFERENCE

Date: 01/01/89 Vol.: No.: Index#: 00019-00

Title: CALCULATION OF THE BER IN SATELLITE DIGITAL BROADCAST SYTEMS

BY IDENTIFICATION OF THE SYNCHRONIZING WORD

Author: HERRMAN, G. ET.AL.

Source: RUNDFUNKTECHNISCHE MITTEILUNGEN (GERMANY)

Date: 11/01/89 Vol.: 32 No.: 6 Index#: 00941-00

Title: ENCRYPTION IN THE 90S - IS THERE A NEW DECODER ON THE HORIZON?

Author: HOWES, KAREN J.P. Source: VIA SATELLITE

Date: 06/01/90 Vol.: 5 No.: 6 Index#: 00437-00

Title: A NEW TECHNIQUE FOR DATA TRANSMISSION VIA TDMA SATELLITE LINK

Author: INAGAKI, K.; HIVATA, Y.; OGAWA, A.

Source: NTC '77 NATIONAL TELECOMMUNICATIONS CONFERENCE RECORD

Date: 01/01/77 Vol.: 1 No.: Index#: 00941-01

Title: ROBUST SIGNALING SYSTEM FOR LAND MOBILE SATELLITE SERVICES

Author: IRISH, D. ET.AL.

Source: AUSSAT PTY LTD, SYDNEY AUSTRALIA/NASA

Date: 03/01/89 Vol.: No.: Index#: 00911-00

Title: ANALYSIS OF SWITCH MATRIX FOR AN SS/TDMA SYSTEM

Author: ITO, Y. ET.AL.

Source: IEEE PROCEEDINGS

Date: 03/01/77 Vol.: 65 No.: Index#: 00912-00

Title: NNEL MULTIPLEX DIGITAL ECHO SUPPRESSOR

Author: IZUMI, K.

Source: INTL CONFERENCE ON DIGITAL SATELLITE COMMUNICATIONS (3RD,

KYOTO)

Date: 01/01/75 Vol.: No.: Index#: 00942-00

Title: INTELSAT: THE NEXT 25 YEARS AND BEYOND

Author: JOHNSON, JAMES W. Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00943-00

Title: AN SS-TDMA SYSTEM USING ONBOARD REGENERATIVE REPEATERS AND

BASEBAND SWITCH

Author: KATO, S.; SAMEJIMA, S.; YAMAMOTO, H.

Source: ICC '84 LINKS FOR THE FUTURE: SCIENCE, SYSTEMS AND SERVICES FOR

COMMUNICATIONS

Date: 01/01/84 Vol.: 2 No.: Index#: 00924-00

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Author: KERRIDGE, M. L.

Source: ESA OTS: 3RD YEAR IN ORBIT/BTI CONFERENCE

Date: 08/01/81 Vol.: No.: Index#: 00944-00

Title: AN OVERVIEW OF SATELLITE TRANSMISSION ISSUES AND THE ISDN

Author: KNIGHT, IVOR N. ET.AL.

Source: ICC 86 CONFERENCE JUNE 86

Date: 01/01/86 Vol.: No.: Index#: 00024-00

Title: STUDY ON THE APPLICABILITY OF ASYNCHRONOUS TIME DIVISION (ATD), TECHNIQUES TO SATELLITE COMMUNICATIONS SYSTEMS.

Author: KUHLER, H. ET.AL.

Source: NASA ESA-CR(P)-2665; ETN-89-93911 Date: 07/01/88 Vol.: No.: Index#: 00945-00

Title: KU-BAND PAYLOAD TRADE-OFFS FOR ISDN SERVICES IN EUROPE

Author: LOPRIORE, M. ET.AL.

Source: AIAA INTERNATIONAL COMMUNICATION SATELLITE SYSTEMS

CONFERENCE AND EXHIBIT

Date: 01/01/90 Vol.: No.: Index#: 00028-00

Title: COMMUNICATION LINK DESIGN OF THE GERMAN DFS NETWORK

Author: MAHNER, H.

Source: COMMUNICATION SATELLITE SYSTEMS CONFERENCE/AIAA

Date: 03/17/86 Vol.: No.: Index#: 00946-00

Title: ITALSAT SATELLITE ON-BOARD BASEBAND PROCESSOR

Author: MARCONICCHIO, F.

Source: TELESPACIO ROME GLOBCOM CONFERENCE PAPER

Date: 01/01/87 Vol.: No.: Index#: 00913-00

Title: MOBILE SATELLITE DISASTER COMMUNICATION SYSTEMS: INTEGRATION

STRATEGIES

Author: MARTINEZ, LARRY F. Source: PTC 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00947-00

Title: FIRST INTERNATIONAL HDTV DIGITAL TRANSMISSION VIA INTELSAT

SATELLITE

Author: MASUMOTO, SHUICHI ET.AL.

Source: PACIFIC TELECOM COUNCIL 1990 CONFERENCE

Date: 01/14/90 Vol.: No.: Index#: 00948-00

Title: FRAME SYNCHRONIZATION IN SS-TDMA

Author: MAZOR, R. A. ET.AL.

Source: NASA MCS-8021;ESA-CR(P)-1521 Date: / / Vol.: No.: Index#: 00949-00

Title: STUDY OF A CODING AND MODULATION SYSTEM FOR THE V32 CALL OF

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Author: MEKRAOUI, M.

Source: ECOLE NATIONALE SUPERIEURE DES TELECOMMS (PARIS)/NASA REP #

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Date: 04/01/87 Vol.: No.: Index#: 00950-00

Title: DELAY ANALYSIS OF A SATELLITE CHANNEL RESERVATION SYSTEM WITH

VARIABLE FRAME FORMAT

Author: MINE, H.; OHNO, K.; SHIOYAMA, T.

Source: IEE PROCEEDINGS, PART F

Date: 06/01/83 Vol.: No.: 4 Index#: 00914-00

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Author: MINE, H.; OHNO, K.; SHIOYANA, T.

Source: IEEE TRANSACTIONS ON COMMUNICATIONS

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Author: MINOUX, M.

Source: INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS

Date: 03/01/87 Vol.: 5 No.: JAN/MAR Index#: 00952-00

Title: ECHO CONCELLATION AND ITS APPLICATIONS

Author: MURANO, KAZUO ET.AL.

Source: IEEE COMMUNICATIONS MAGAZINE Date: 01/01/90 Vol.: No.: Index#: 00915-00

Title: NEW TRANSMISSION METHODS: SATELLITES AND OPTICAL

CONDUCTORS Author: NICOLICH, A.

Source: L'ANTENNA, ITALY

Date: 09/01/80 Vol.: 52 No.: 9 Index#: 00916-00

Title: EVOLVING TECHNOLOGIES - ACTS THE BLUEPRINT FOR FUTURE

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Author: OLMSTEAD, DEAN ET.AL.

Source: VIA SATELLITE

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Title: THE ECONOMIC AND SOCIAL BENEFITS OF SPACE COMMUNICATION

Author: PELTON, JOSEPH N. Source: SPACE POLICY

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Author: PELTON, JOSEPH N.

Source: VIA SATELLITE

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Author: PENNONI, G.

Source: ICC '85 INTERNATIONAL CONFERENCE RECORD

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Author: PERONI, B.

Source: ESA PROB. OF SPACE AND TERRESTRIAL MICROWAVE PROPAGATION

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Author: PRATT, T. ET.AL.

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Author: PREUSS, R. D.

Source: ECOLE NATIONALE SUPERIEURE DES TELECOMMUNICATIONS (PARIS)

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Title: ERROR PERFORMANCE OR SATELLITE ISDN CONNECTIONS

Author: PUGA, MARCOS W. ET.AL. Source: GLOBECOM 87 CONFERENCE

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Author: RAMADANOVIC, LJUBOMIR Source: ALTA FREQUEUZA (ITALY)

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Author: RESHEFF, SAMUEL ET.AL.

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

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Author: SCHILLING, DONALD L.

Source: IEEE SPECTRUM

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Author: SCHWAB, L. M. ET.AL.

Source: LINCOLN LAB, M.I.T., LEXINGTON, MA Date: 03/01/83 Vol.: No.: Index#: 00955-00

Title: EXPERIMENTAL MILLIMETER WAVE SATELLITE COMMUNICATION

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Author: SHIMADA, MASAKI Source: PTC 1990 CONFERENCE

Date: 01/04/90 Vol.: No.: Index#: 00956-00

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Author: SPIEGLEMAN, A.

Source: COMMUNICATIONS NEWS

Date: 06/01/87 Vol.: 24 No.: 6 Index#: 00957-00

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Author: STAMMINGER, REINHARD ET.AL. Source: SATELLITE COMMUNICATIONS Date: 11/01/89 Vol.: No.: Index#: 00920-00

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Author: STELTER, N.R.

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Author: STEM, AC

Source: VIA SATELLITE

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Author: STEM, AL

Source: VIA SATELLITE

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Author: SUYERHOOD, H. G. ET.AL.

Source: INTERNATIONAL CONFERENCE ON DIGITAL SATELLITE

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Source: IEEE TRANSACTIONS ON AEROSPACE AND ELETRONIC SYSTEMS

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Author: TIMOR, V.

Source: BELL SYSTEM TECHNICAL JOURNAL (AIAA TECHNICAL LIBRARY)

Date: 04/01/81 Vol.: 60 No.: Index#: 00923-00

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Author: VITORBI, ANDREW J.

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Author: WEINREICH, D. E.

Source: ICC 86 CONFERENCE JUNE 86

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Author: WELTI, G. R.

Source: NTC '77; NATIONAL TELECOMMUNICATIONS CONFERENCE RECORD

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Author: WONG, S. W.

Source: INTERNATIONAL CONFERENCE ON ANTENNAS AND PROPAGATION

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Author: YABUSAKI, MASAMI

Source: IEEE TRANSACTIONS ON COMMUNICATIONS

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Author: YOKOI, TADAHIRO ET.AL. Source: ATT LIBRARY NETWORK

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Author:

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Title: FIFTH INTERNATIONAL CONFERENCE ON MOBILE RADIO AND PERSONAL

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Author: ANON (ED)

Source: IEE CONFERENCE PUBLICATION

Date: 01/01/89 Vol.: No.: 315 Index#: 01001-00

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Author: ASANO, M.

Source: 1ST WORLD ELECTRONIC MEDIA SYMPOSIUM; SPEAKERS PAPERS

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Author: BIGGS, P.D.; BLONSTEIN, J.L.

Source: INTERNATIONAL ASTRONAUTICAL CONGRESS 31ST #IAF PAPER 80-F-169

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Author: CHANG, KAI ET.AL.

Source:

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Title: CANADIAN INTERESTS AND ACTIVITIES IN SPACE COMMUNICATION AND

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Author: CHAPMAN, J. H.

Source: AMERICAN ASTRONAUTICAL SOCIETY 19TH ANNUAL MEETING

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Author: EATON, R. AND SMITH, AL

Source: INTERNATIONAL CONFERENCE ON SATELLITE COMMUNICATION

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Date: 01/01/75 Vol.: No.: 1AA7517 Index#: 01006-00

Title: POWER SUPPLY TECHNOLOGIES - KEYSTONE FOR SPACE AND TERRESTRIAL DEVELOPMENT

Author: FRITZSCHE, A. ET.AL.

Source: 41ST CONGRESS OF THE INTERNATIONAL ASTRONAUTICAL

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Author: HACKER, G. Source: FUNKSCHAU

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Author: HOWELL, T. F. Source: ESA JOURNAL

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Author: HUDRISIER, H.

Source: INFORMATION ET GESTION

Date: 05/01/83 Vol.: No.: Index#: 01010-00

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Author: KANTOR, L. IA

Source: INTERNATIONAL ASTRONAUTICAL FEDERATION 28TH CONGRESS

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Title: MULTIBEAM SYSTEM APPLICATIONS AND IMPACT ON SATELLITE

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Author: KAWAI, M. AND NAKAYA, K.

Source: NTT RADIO/41ST CONGRESS OF INTERNATIONAL ASTRONAUTICAL

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Author: KERVER, TOM

Source: SATELLITE COMMUNICATIONS
Date: 08/01/86 Vol.: No.: Index#: 01013-00

Title: DEREGULATION INDICATES A HEALTHY SATELLITE SERVICES FUTURE

Author: KIRK, BARRIE

Source: COMPUTING CANADA

Date: 09/13/90 Vol.: V16 No.: 18 Index#: 01014-00

Title: COMMUNICATIONS SATELLITE SYSTEM FOR AFRICA

Author: KRIEGAL, W.; AND LAUFENBER, W.

Source: DORNIER-WEIKE GIMIBILTI

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Author: KRIEGL, W.; LOEHLE, H.; OTTO, D.

Source: SPACE, SPACE TELECOMMUNICATIONS AND SATELLITE RADIO

BROADCASTING CONFERENCE

Date: 01/01/79 Vol.: No.: Index#: 01017-00

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Author: LOCKYER, K. S.

Source: INSTITUTION OF ELECTRICAL ENGINEERS, PROCEEDINGS

Date: 08/01/68 Vol.: 115 No.: Index#: 01018-00

Title: COMMUNICATION SATELLITES FOR SOUTH AMERICA

Author: LOEHLE, H.: BRAUN, H.M.: SCHMIDBAUER, M.

Source: DORNIER-WERKE GIMIBILTI

Date: 12/01/79 Vol.: No.: Index#: 01016-00

Title: THE SYMPHONIE PROJECT

Author: MADON, P.K. AND PFEIFFER, B.R.K.

Source: CONSORTIUM FRANCO ALLEMAND POUR LE SATELLITE SYMPHONIE

Date: 01/01/75 Vol.: No.: Index#: 01019-00

Title: ENGINEERING TEST SATELLITE IV AND FUTURE APPLICATIONS

Author: NAKAMARV, K. ET.AL.

Source: 41ST CONGRESS OF THE INTERNATIONAL ASTRONAUTICAL

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Date: 10/06/90 Vol.: No.: IAF-90- Index#: 01020-00

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Author: PFEIFFER, B. R.

Source: INTERNATIONAL SYMPOSIUM ON SPACE TECHNOLOGY AND SCIENCE

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Author: RAITT-BROWN, CI; HAIGH, A.

Source: BRITISH INTERPLANETARY SOCIETY JOURNAL

Date: 05/01/79 Vol.: 32 No.: Index#: 01022-00

Title: A SATELLITE SYSTEM FOR EDUCATIONAL TELEVISION

Author: ROSEN, H.

Source: ASTRONAUTICS AND AERONAUTICS Date: 04/01/68 Vol.: 6 No.: Index#: 01023-00

Title: FREQUENCY SHAVING BY FIXED AND MOBILE USERS IN THE 4-28 MHZ

RANGE

Author: SAILORS, D.B. AND BROWN R.P.

Source: NAVAL OCEAN SYSTEMS CENTER REPORT #NOSC/TR-230

Date: 03/28/78 Vol.: No.: Index#: 01024-00

Title: DBS, DEREGULATION SPUR INTERNATIONAL BROADCASTING

Author: SATELLITE COMMUNICATIONS STAFF

Source: SATELLITE COMMUNICATIONS Date: 12/01/89 Vol.: No.: Index#: 01025-00

Title: DIGITAL-ANALOG AND ANALOG TO DIGITAL CONVERSION USING PULSE DURATION MOD.

Author: SCHLEIFER, W.

Source: TECHNISCHE UNIVERSITY MUENCHEN (DOCTORIAL THESIS)

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Author: TIMOR, V.

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Date: 04/01/81 Vol.: 60 No.: Index#: 00923-00

Title: KEGGING PLANT: 2002 AD-ROBOT OR MAN

Author: WILKINSON, I.

Source: THORN EMI ROBOTICS, UK/INTEL/ET AL ISATA 86 AUTOMOTIVE TECH

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